

2004

**Carl D. Perkins
Vocational and Applied Technology
Education Act of 1998**

**Vocational Education Enrollment
Reporting System
(VEERS)
Field Manual**

January 2004

****Supercedes All Previous VEERS Manuals****



**Wisconsin Department of Public Instruction
Elizabeth Burmaster, State Superintendent
Madison, Wisconsin**

Developed by
Career and Technical Education Team
Division for Academic Excellence
John Kean, Assistant State Superintendent

This publication is available from

Career and Technical Education Team
Wisconsin Department of Public Instruction
125 S. Webster Street
P.O. Box 7841
Madison, WI 53707-7841
(608) 267-2274

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Table of Contents

Section Title	Page Number(s)
The Vocational Education Enrollment Reporting System VEERS Overview	1-2
Introduction	2
Timelines for Submitting VEERS Reports	2
VEERS Composite Enrollment Report (PI-1330R)	3-14
Overview	4
Directions for Submitting Diskette Reports	4
Composite Enrollment Element Chart	6
Coding Directions by Cell	7-13
Wisconsin Technical College Codes	12
UW System Campus Codes	13
Other College Codes	13
Student Follow-up Report (PI-1335)	15-20
Overview	16
Form Directions and Coding	
General Directions	16
Coding Directions by Column	17-18
Sample Student Follow-up Study Form	19
VEERS Instructional Area Code Listing	21-24
District/School Code Listing	25-36
Detailed Standard Occupation Code Listing	37-48
Detailed Instructional Area Code – Classification of Instructional Program Listing	49-84

VEERS Overview

Section

VOCATIONAL EDUCATION ENROLLMENT REPORTING SYSTEM

Introduction

The Vocational Education Enrollment Reporting System (herein referred to as VEERS) is an important aspect of the Carl Perkins Act of 1998 (CPA) as it collects enrollment information at the 11th, 12th and 13th grade levels on those secondary districts receiving CPA funds or participating in CPA Basic Grant projects.

This collected enrollment information is in turn utilized to respond to the Federal Performance Report mandated of the State, to gather information related to the districts for the State Plan, to assist districts in measuring progress to mandated Core Indicators of Performance, and finally as a criterion in the Office of Civil Rights process. **It is, therefore, very important and critical that all enrollment information requested by VEERS from the district be timely, concise, complete and accurate.** Failure to report in such a manner can and will jeopardize the district's financial grant for the reporting year.

The two reports that basic grant participating districts are required to submit are the Composite Enrollment Report and the Graduate Follow-up Report. The Composite Enrollment Report is due on or before July 15 with the Follow-up Report being due May 1 of the year following.

If you have questions relating to any aspect of VEERS, please phone Don Vedder at 608-267-2279 for clarification. Don Vedder's internet address is don.vedder@dpi.state.wi.us

Timeline For Report Submission:

DPI Number/Name	Due Date
PI-1330R/Composite Enrollment Report	July 15
PI-1335/Graduate Completer Follow-up Report	May 1 (following year)

Composite Enrollment

Section

VEERS Composite Enrollment Report [PI-1330R (Rev. 10/00)]

Overview

The VEERS Composite Enrollment Report has been developed for the purpose of submitting needed student information from the LEA to the Department and the Lifework Education Team via the means of computer diskette. Every student at the 11th-13th grade levels from each Carl Perkins I participating district is to be reported by high school in the district on a one student record per line or row in the reporting file. The Composite Enrollment Report file is to be received by the Lifework Education Team on or prior to July 15 of each fiscal year.

Directions for Submitting Diskette Reports

1. Diskette Requirements

- MS-DOS format only, the Department no longer has access or utilizes Apple or Macintosh hardware
- 3 1/2" high capacity diskette
- External label as follows:
 - FY ** Composite Report (**: insert reporting year, i.e., 2000-2001 = 01)
 - District Name
 - School Names
 - File Format (CSV or Excel) and application used to create file e.g. MS Word, Lotus, etc

- **Mail** a copy of the diskette by July 15 to:

Wisconsin Department of Public Instruction
c/o VEERS - Don Vedder
P.O. Box 7841
Madison, WI 53707-7841

2. File Requirements

- Form must adhere to columnar layout as found on the VEERS Composite Enrollment Report Element chart
- One student record per line or row
- Directions and coding are the same as the form from which the data element came
- Do not use punctuation within the data unless the definition for the data cell allows a delimiting character of a tilde(~) such as Race, Characteristic, or Program Area Participation. A decimal point should be entered for Instructional Area code
- The file can be left in an Excel (= <7.0) format if a spreadsheet is used; **if another application program is used, the file must be in an ASCII (text), comma delineated format** with a return after each line (student record) in the file
- Since the Lifework Education Team will be pre-editing the file through the use of an Excel spreadsheet prior to uploading to the DPI data base server, it is important that if a particular cell is not applicable to an individual student, that cell should still be preserved through the use of a comma in a comma delineated file
- Internal file name as follows:

99VE9999.DTA where the first two 9s are to be replaced with the Fiscal year and to be replaced with the District #

- Maximum file size is 25,000 student records. If there are more than 25,000 records per district or the file does not fit on one diskette, file breakout would be as follows:

- in the case of one high school district, file breakout would be by grade level

- in the case of a multi-high school district, file breakout would be by school

File differentiation in such cases would be by changing the last alpha within the extension of the file name so that the first file would be 01VE9999.DTA and the second would be 01VE9999.DTB and so forth.

Composite Enrollment Report Element Chart

The following "chart" details the column sequence and corresponding name for each data element as well as valid codes for each.

Column # Sequence	Name	Valid Codes
1	District Number	4 digit number found in District/School Section
2	School Number	4 digit number found in District/School Section
3	Student's District of Residence	4 digit number found in District/School Section
4	Student Number	Max 12 digit number unique for the student
5	Grade Level	11, 12, or 13
6	Last Name	Max 20 characters with no punctuation
7	First Name	Max 10 characters with no punctuation
8	Date of Birth	6 digit number in mmddyy format
9	Sex	M or F
10	Race	A, B, H, I, P and or W with max of 6 codes with ~ between each
11	Characteristic	R only; or A, E, H and or L with max of 4 codes with ~ between
12	Teen Single Parent	Y or N
13	Student Progress	Y or N
14	Career Plan	Y or N
15	Post-High School Career Preparation	1, 2, 3, or 4
16	VE Participant	Y or N (skip to cell 23 if N for student)
17	Program Area Participation	A, B, F, H, M and or T with max of 6 codes with ~ between each
18	VE Concentrator	Y or N (skip to cell 23 if N for student)
19	Instructional Area Code	6 digit number with decimal from Instructional Area Code Section only
20	Non-Certificated Work-based Learning Methodology	1, 2, 3, 4, 5, or 6
21	Certificated Work-based Learning Methodology	1, 2, 3, 4, or 5
22	Certificated Program Completion	1, 2, 3 or 4 (leave blank if cell 21 is 5 for student)
23	Completion Status	C1, D1, D2, D3, A1, or B1
24	Compulsory School Attendance	2 character alpha or X
25	Youth Options Attendance	2 character alpha, 4 digit number, or X
26	Advanced Standing Credit - Tech Prep, Participation	2 character alpha or X
27	Advanced Standing Credit - Tech Prep, Completion	Y, N, or X
28	Transcripted Credit-Tech Prep, Participation	2 character alpha or X
29	Transcripted Credit-Tech Prep, Completion	Y, N, or X
30	Youth Apprenticeship, Participation	2 character alpha, 4 digit number or X
31	Youth Apprenticeship, Completion	Y, N, or X
32	Transcripted Credit – University, Participation	4 digit number or X
33	Transcripted Credit – University, Completion	Y, N, or X

Coding Directions by Cell

Cell 1: District Code - Enter the DPI assigned code for your district found within the District/School Listing section of this manual.

Cell 2: School Code - Enter the DPI assigned code for the specific high school within your district found within the District/School Listing section of this manual.

Cell 3: Student's District of Residence: - Enter the DPI assigned code found within the District/School Listing section of this manual to find and enter in this cell the appropriate code for the student's district of residence. For most students, this will mirror the District code given in Cell 1, however the code should and would be different for those students attending the district that do not reside within the boundaries of the district.

Cell 4: Student ID Number - Enter the student's social security number. If the student does not wish to divulge their number, a unique number for the student may be substituted if it is equal to or less than 12 digits in length.

Cell 5: Grade – Enter the student's grade level for the reporting period of **11, 12, OR 13**. (If the grade level is 13 (ungraded), only those students over the age of 16 are to be entered on this report.)

Cell 6: Student Name (Last) – Enter the student's last name. The length of the student name is constrained to 20 characters for the last name. If the student is a Jr or for example an IV, place that information in this cell after the last name using a space to separate the entry. Do not use punctuation within the name.

Cell 7: Student Name (First) - Enter the student's first name. The length of the student name is constrained to 10 characters for the first name. Do not use punctuation within the name.

Cell 8: Birthday – Enter the student's birth date. Format must be numerical, six digits in length in the order of Month/Day/Year (i.e., April 21, 1983 would be submitted as 042183).

Cell 9: Sex – Enter the code of either **M** for male or **F** for female that reflects the student's gender.

Cell 10: Race - Enter a minimum of one code of the following that apply for each student. If the student considers their self a multi-ethnic you may enter up to a maximum of six codes for the student with a tilde (~) between each code, i.e. I~H, W~B~H, etc:

- A** Asian
- B** Black / African American
- H** Hispanic
- I** American Indian / Alaska Native
- P** Pacific Islander / Hawaiian
- W** White

Cell 11: Characteristic - Enter a minimum of one code for each student. If the student can be characterized by more than one of the codes, enter the appropriate codes with a tilde (~) between each code, i.e. H~L~A or H~E. The maximum number of codes allowed for each student is four. A student classified as Regular will have only one code (R) :

- H** Handicapped
- L** Limited English Proficient
- A** Disadvantaged - Academic
- E** Disadvantaged – Economic
- R** Regular

Handicapped includes any individual who (1) has a physical or mental impairment that substantially limits one or more of the major life activities of that individual; (2) has a record of an impairment described in paragraph (1) of this definition; or (3) is regarded as having an impairment described in paragraph (1) of this definition. Note: It further includes any individual who has been evaluated under Part B of the IDEA and determined to be

an individual with a disability who is in need of special education and related services; and any individual who is considered disabled under section 504 of the Rehabilitation Act of 1973. For a student to be coded as handicapped, the student must fall under one of the mentioned conditions and there must be substantive evidence of the condition on file at the district.

Limited English Proficient is to be utilized for students who were not born in the United States or whose native language is a language other than English; who come from environments where a language other than English is dominant; or who are American Indian and Alaska Natives and who come from environments where a language other than English has had a significant impact on their level of English language proficiency; and who by reason thereof, have sufficient difficulty speaking, reading, writing, or understanding the English language to deny those individuals the opportunity to learn successfully in classrooms where the language of instruction is English or to participate fully in our society. Again, there must be substantive evidence of condition on file at the district.

Disadvantaged includes categories of academic disadvantage and economic disadvantage. For a student to be coded as disadvantaged, the student must fall under one of the following categories with substantive evidence of condition on file at the district:

Academic - Student demonstrates a need based on one of the following conditions:

- 1) Scores at or below the 25th percentile on a standardized achievement or aptitude test;
- 2) Whose secondary school grades are below 2.0 on a 4.0 scale where A = 4.0; or
- 3) Fails to maintain minimum academic competencies.

Economic - Student demonstrates a need based on one of the following conditions:

1) Family or student is eligible - for AFDC, Food Stamps, to be counted under Chapter 1 of Title 1 of the Elementary & Secondary Education Act, or Free or reduced-priced meals under the National School Lunch program;

2) Determined to be low income according to the latest data from the Dept. of Commerce;
or

3) Identified as low income based upon other indices of economic status granted by the Secretary of Education.

(Note: The Department of Agriculture which administers the Free or Reduced priced meals under the National School Lunch program will now provide a listing of students utilizing the program for the purpose determining economically disadvantage. It is to be emphasized that this list is strictly confidential and is to be safeguarded.)

Regular is to be used for the student that does not fall under the Handicapped, LEP, or Disadvantaged coding conditions.

Cell 12: Teen Single Parent - Enter a code of either **Y** for yes or **N** for no if the student was unmarried or legally separated from a spouse and has sole or joint custody of a minor child or children during the reporting year.

Cell 13: Student Progress - Enter a code of either **Y** for yes or **N** for no if the student achieved sufficient credits during the reporting year to move on to the next grade level for the next reporting year or graduate during the current reporting year.

Cell 14: Career Plan - Enter a code of either **Y** for yes or **N** for no if the student has a written career plan on file. A career plan is defined as documentation maintained on the student that provides evidence that the student has systematically explored their aptitudes, interests, options, preferences, skills and the existing labor market

and the student, is in turn, using this knowledge of self and work as a basis for goal setting and educational planning at the secondary level for post secondary attainment.

Cell 15: Post-High School Career Preparation - Enter a code that represents the student's informed selected educational program (through meetings between the student, school guidance department and parents) based upon the student's future planned post-high school outcome from the following list:

1 Non-Baccalaureate Prep - Student is enrolled in a planned sequence of courses that will lead to enrollment in a non-baccalaureate degree program at a post-secondary institution.

2 Baccalaureate Prep - Student is enrolled in a planned sequence of courses that will lead to enrollment in a baccalaureate degree program at a post-secondary institution.

3 Career Prep - Student is enrolled in a planned coherent sequence of courses that will result in academic and technical occupational competencies so that student can directly enter the workforce after graduation from high school.

4 Undeclared - Student is not enrolled in a planned coherent sequence of courses with a declared occupational and educational goal.

Cell 16: VE Participant - Enter a code of either of **Y** for yes or **N** for no, **if the student was enrolled in one or more vocational courses for the reporting year.**

The vocational course program areas are: Agriculture Education, Business Education, Family and Consumer Home Economics Education, Health Occupations Education, Marketing Education and Technology Education.

Note: Fill in Cells 17 - 22 only if Y was coded for the Student in Cell 16, otherwise skip to Cell 23 for the Student

Cell 17: Program Area Participation – Enter a minimum of one code from the following list that represents the program area of the coursework that the student was enrolled during the reporting year that was taught by a vocationally certified instructor. If the student participated in coursework from more than one vocational program area separate the codes with a tilde (~), i.e. A~B or F~M~B.

- A** Agriculture Education
- B** Business Education
- F** Family and Consumer Home Economics Education
- H** Health Occupations Education
- M** Marketing Education
- T** Technology Education

Cell 18: Vocational Concentrator – Enter a code of either **Y** (Yes) or **N** (No) if the student was enrolled in a minimum of one vocational course during the reporting year which is a part of a coherent sequence of three or more courses leading to the student's secondary vocational career objective.

Note: Fill in Cells 19 - 22 only if Y was coded for the Student in Cell 18, otherwise skip to Cell 23 for the Student

Cell 19: Instructional Area Code - Enter an appropriate code from the Instructional Area Code Listing, found within the appendix, **for the vocational concentrator student that corresponds to the focus of the student's planned secondary vocational coherent sequence of courses (vocational major).**

Cell 20: Non-Certificated Work-Based Learning Methodology - Code one method from the following list based upon the student's school-supervised vocational education method of instruction. If the student is involved in more than one of the identified methods, use the hierarchy of the coding list for determining the appropriate code. *Note that if the student involved in a methodology as part of certificated employability skills program enter the student as 6 under this cell and report under cell 21.*

1 Co-op: The student is engaged in a written cooperative agreement between the school and a paying employer wherein the student receives instruction by alternation of study in school, that includes academic courses and related technical instruction, with a job in any occupational field. The instruction must be planned and supervised by the school and the employer so that each directly contributes to the student's education and employability.

2 Supervised Occupational Experience: The student is engaged in an on-the-job experience designed to give the student knowledge of the skills required of an occupation under the direction of an employer, a training sponsor and/or a teacher-coordinator. The supervised occupational experience does not meet the criterion of a coop.

3 Simulation: The student is engaged in an instructional classroom experience planned to give the illusion of real life from which the student may learn basic skills and competencies for an occupational area.

4 Internship The student is engaged in a school approved program where the student is placed with an employer for a specific period of time to learn about a particular industry or occupation. The student may or may not be paid.

5 Other (Provide written description)

6 None at this time

Cell 21: Certificated Work Based Learning Methodology – Enter the appropriate code from the following if the student participated in a vocational program that offered a certificate upon completion of the program. If the student is involved in more than one of the identified methods, use the hierarchy of the coding list for determining the appropriate code.

1 Youth Apprenticeship Program - A one or two-year school-supervised paid work experience, in which the student learns specific industry developed, state approved occupational competencies in a specific career field. The student is awarded a Certificate of Occupational Proficiency by the Wisconsin Governor's Work-based Learning Board upon successful completion of the program. A listing of Wisconsin state certified apprenticeship programs may be found at the website of <http://www.dwd.state.wi.us/cew/programs.htm>.

2 State Certified Cooperative Education Skill Standards Program - A one-year school-supervised paid work experience in which a student is also enrolled in a DPI approved co-op class in one of the vocational education content areas. The student learns industry endorsed, state approved occupational competencies as well as general employability skills. The student is awarded a Certificate of Occupational Proficiency by the Wisconsin Department of Public Instruction upon successful completion of the program.

3 Employability Skills Certificate Program - A DPI approved school-supervised paid work experience of a minimum of 180 hours wherein the student learns SCANS employability skills and develops a written career plan. The student is awarded an Employability Skills Certificate by the Wisconsin Department of Public Instruction upon successful completion of the program.

4 Business/Industry Sponsored Certificate Program - A school-supervised paid work experience of varying time length in a specific occupational area within the sponsoring business or industry. The student takes a business/industry developed course or training, or must meet related competencies on-the-job. The certificate is awarded to the student by the sponsoring business or industry upon successful completion of the program.

5 None at this time

Cell 22: Certificated Program Completion – Enter one of the following codes in regard to the student's certificated program completion status during the current reporting year (leave cell blank if the student is coded as **5** in cell 21):

1 Student met the requirements of the certificated program and was or is to be awarded a certificate.

2 Student is continuing in the certificated program.

3 Student has left the certificated program before completion.

4 Student completed program but did not meet the requirements for the certificate.

Cells 23 - Cell 25 are to be completed for <i>all</i> students, regardless of VE Participation status
--

Cell 23: Completion Status - Enter one of the following codes for each student based on the student's status at the end of the reporting year:

C1 Student has completed the student's selected secondary vocational educational program (a coherent sequence of courses) and has graduated.

D1 Student has graduated but either 1) will not have completed the student's selected secondary vocational educational program (a coherent sequence of courses) or 2) was only a vocational participant by taking a few scattered vocational courses or 3) was not a vocational participant during the reporting year.

D2 Student has dropped out of school during the current reporting year.

D3 Student has died during the current reporting year.

B1 Student transferred to another secondary district during the current reporting year.

A1 Student is continuing their secondary studies.

Cell 24: Compulsory School Attendance: -Enter the 2 place alpha code for the technical college of attendance from the technical college listing if the student attended a technical college for the reason of compulsory school attendance pursuant to §118.15(1) Wis. Stats; otherwise enter **X**.

Cell 25: Youth Options Attendance: - Enter the 2 place alpha code for the technical college or the four digit code for the UW system campus of attendance from the college listing if the student attended a college for the reason of Youth Options pursuant to §118.55 Wis. Stats, wherein an approved DPI form PI-8700 (or its equivalent) is on file at the secondary district. §118.55 specifically excludes student attending a technical college pursuant to a §118.15 compulsory attendance contract; otherwise enter **X**.

Cells 26 - 31 deal with two aspects or program areas of the School - to - Work Initiative; Advanced Standing and Transcribed Credit, Tech Prep and Youth Apprenticeship. It is extremely important that you be familiar with the articulation agreements your district has in place with the technical college for the reporting year prior to coding these cells. Also if the student participated in any one of these agreements for the reporting year, that student should be marked as a vocational education participant and cells 16 through 22 should be coded accordingly.
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Cell 26: Articulated Course Participation - Advanced Standing; Tech Prep: Enter the 2 place letter code of the technical college from the listing below if the student participated in an articulated course(s) for advanced standing during the reporting year that would enable the student to be eligible for technical college credit upon enrollment. The district must have an explicit agreement with the technical college that would allow the student to be eligible to receive post-secondary credit towards a degree or diploma program upon enrollment to the technical college. Enter **X** if the student did not participate in this program or the district does not have articulated course agreements.

Cell 27: Articulated Course Completion - Advanced Standing; Tech Prep: Enter a **Y** for yes or **N** for no if the student fulfilled the requirements for high school credit for any of the articulated course(s) for advanced standing during the reporting year that would enable the student to be eligible for technical college credit upon enrollment. The district must have an explicit agreement with the technical college that would allow the student to be eligible to receive post-secondary credit towards a degree or diploma program upon enrollment to the technical college. Enter **X** if the student did not participate in this program or the district does not have articulated course agreements.

Cell 28: Articulated Course Participation - Transcribed Credit; Tech Prep: Enter the 2 place letter code of the technical college from the listing below if the student participated in an articulated course(s) for transcribed (dual) technical college credit during the reporting year. The district must have an explicit agreement with the technical college that allows the student to receive post-secondary credit towards a degree or diploma program. Enter **X** if the student did not participate in this program or the district does not have articulated course agreements.

Cell 29: Articulated Course Completion - Transcribed Credit; Tech Prep: Enter a **Y** for yes or **N** for no if the student fulfilled the requirements for high school credit for any of the articulated course(s) for transcribed (dual) technical college credit that the student participated in during the reporting year. The district must have an explicit agreement with the technical college that allows the student to receive post-secondary credit towards a degree or diploma program. Enter **X** if the student did not participate in this program or the district does not have articulated course agreements.

Cell 30: Articulated Course Participation - Youth Apprenticeship: Enter the 2 place letter code of the technical college from the listing below or the four digit code from the UW listing if the student participated in an articulated course(s) related to youth apprenticeship for transcribed (dual) credit or advanced standing with a technical college or university during the reporting year. The district must have an explicit agreement with the technical college that allows the student to receive post-secondary credit towards a degree or diploma program. Enter **X** if the student did not participate in this program or the district does not have articulated course agreements.

Cell 31: Articulated Course Completion - Youth Apprenticeship: Enter a **Y** for yes or **N** for no if the student fulfilled the requirements for high school credit for any of the articulated course(s) related to youth apprenticeship for transcribed (dual) credit or advanced standing with a technical college or university that the student participated in during the reporting year. The district must have an explicit agreement with the technical college that allows the student to receive post-secondary credit towards a degree or diploma program. Enter **X** if the student did not participate in this program or the district does not have articulated course agreements.

Wisconsin Technical College District Codes:

BH	Blackhawk	MP	Moraine Park
CV	Chippewa Valley	NI	Nicolet Area
FV	Fox Valley	NC	North Central
GW	Gateway	NE	Northeast Wisconsin
LS	Lakeshore	SW	Southwest Wisconsin
MA	MATC-Madison	WC	Waukesha County
MW	MATC-Milwaukee	WW	Western Wisconsin
MS	Mid-State	WI	Wisconsin Indianhead

Cell 32: Course Participation - Transcribed Credit; University: Enter the four digit numeric code of the university system campus from the University of Wisconsin System listing below if the student participated in a course(s) for transcribed (dual) credit at one of the campuses during the reporting year. Enter **X** if the student did not participate in this program.

Cell 33: Course Completion - Transcribed Credit; University: Enter a **Y** for yes or **N** for no if the student fulfilled the requirements for high school credit for any of the course(s) for transcribed (dual) credit at one of the campuses the student participated in during the reporting year. Enter **X** if the student did not participate in this program.

University of Wisconsin System Campus Codes:

4657	UW-Baraboo / Sauk County	4674	UW-Oshkosh
4653	UW-Barron County	4690	UW-Parkside
4670	UW-Eau Claire	4676	UW-Platteville
4673	UW-Fond du Lac	9921	UW-Racine
4687	UW-Fox Valley	4634	UW-Richland
4688	UW-Green Bay	4678	UW-River Falls
9000	UW-Kenosha	4689	UW-Rock County
4672	UW-La Crosse	4695	UW-Sheboygan
4656	UW-Madison	4680	UW-Stevens Point
4692	UW-Manitowoc	4652	UW-Stout
4696	UW-Marathon County	4682	UW-Superior
4693	UW-Marinette	4659	UW-Washington County
4697	UW-Mashfield / Wood County	4698	UW-Waukesha
4681	UW-Medford	4684	UW-Whitewater
4658	UW-Milwaukee		

Other College Codes

1000 If the student is participating in a college level advanced placement course at the high school.

IA If the technical college of attendance or the articulation agreement is with a technical college district or university located in Iowa.

IL If the technical college of attendance or the articulation agreement is with a technical college district or university located in Illinois.

MI If the technical college of attendance or the articulation agreement is with a technical college district or university located in Michigan.

MN If the technical college of attendance or the articulation agreement is with a technical college district or university located in Minnesota.

OT If the technical college of attendance or the articulation agreement is with a private technical school or college.

Student Follow-Up

Section

Student Follow-Up Report: Vocational Education [PI-1335 (Rev. 2/93)]

Overview

The Student Follow-Up Report tracks the Student Enrollment Report (PI-1330R) vocational education participant completers from the previous year and finishes the year's reporting cycle. While referred to with a DPI form number (e.g., PI-1335), the Student Follow-up Report is actually a computer-generated report, developed district by district, which is mailed from the Lifework Education Team in late January or early February to each participating IIC CPA district. Once the district has received their report, it must begin to contact those students listed by means of mail or telephone to ascertain responses from the student graduates as to what they are doing at this point in time in regards to education and/or employment.

For the purpose of eliciting responses from your graduate completers, a sample survey instrument has been provided at the end of this section. The accepted response rate is a minimum of 80% of the total number of graduate completers found on the PI-1335 form. If there is a difficulty in eliciting direct responses from the graduates themselves, it is completely appropriate to contact secondary sources of information on the student such as parents, teachers, etc., to achieve the minimum 80% response rate.

Some of the information requested on the Student Follow-up Response form details whether or not the education and/or employment the graduate is engaged in is related or unrelated to the student's secondary training. This relationship is based on the instructional area code pre-printed on the PI-1335 form and its vocational program area. The list of instructional area codes and titles can be found within the Instructional Area Code listing section of the Field Manual.

Form Directions and Coding

General Directions: The Student Follow-up Response Form (PI-1335) has been developed to facilitate the reporting of the follow-up data to the Lifework Education Team. **The following information is pre-printed on the PI-1335 and is not to be altered:**

- | | |
|---|---------------------------|
| •District Code | •Completion Code |
| •School Code | •Total Number in Program |
| •Instructional Area Code | •Total Number in School |
| •First Initial and Last Name of Student | •Total Number in District |
| •Student Number | |

You are advised to make as many copies of the original PI-1335 as necessary for worksheets and then a copy of the final typed, completed report for your records prior to returning the original completed PI-1335 by May 1 to:

Wisconsin Department of Public Instruction
c/o VEERS - Don Vedder
P.O. Box 7841
Madison, WI 53707-7841

Coding Directions by Column

Student Contact Status (Column 5)

Enter the individually appropriate contact status code from the following list for all students:

- A** Student contact
- AS** Second Party Contact
- D** No Contact or No Response

Education Status (Column 6)

Enter the individually appropriate education status code for all students:

- A** Not attending any post-secondary school
- B** Attending two-year college, related to high school vocational program
- C** Attending two-year college, unrelated to high school vocational program
- D** Attending four-year college, related to high school vocational program
- E** Attending four-year college, unrelated to high school vocational program
- F** Attending other, related to high school vocational program
- G** Attending other, unrelated to high school vocational program
- X** No response

Employment Status (Column 7)

Enter individually, one of the following employment status codes for all students.

- 1** Employed in a field related to high school vocational program
- 2** Employed in a field not related to high school vocational program
- 3** Military full-time, related to high school vocational program
- 4** Military full-time, unrelated to high school vocational program
- 5** Homemaker
- 6** Unemployed, but seeking employment
- 7** Not in labor force and Not pursuing employment
- 8** Deceased
- 9** No response to question

Note: Columns, #8, #9, and #10 on the report are to be completed only for those individuals with the following employment status codes:

- 1 Employed in a field related** to high school vocational program,
or
- 2 Employed in a field not related** to high school vocational program

Hours Per Week (Column 8)

Enter the number of whole hours per week the individual normally works up to 99. If there is no response to this question, enter an "X."

Standard Occupational Classification Code (Column 9)

To determine the Standard Occupational Classification Code (SOC), evaluate the job title and/or job duties of the student and match with the appropriate SOC code given below. If the student did not indicate their job title or duties so that a SOC code cannot be ascertained, change the Employment Status Code to 9 and either do not enter information under hourly wage and hours worked or delete the information if entered.

The list of SOC Codes to utilize is as follows (a more detailed listing of job titles for each SOC can be found in the SOC Section listing following this section:

- 14** Management Related Occupations
- 17** Computer, Mathematical, and Operations Research Occupations
- 29** Registered Nurses
- 32** Writers, Artists, Performers, and Related Occupations
- 36** Health Technologists and Technicians
- 37** Engineering and Related Technologists and Technicians
- 38** Science Technologists and Technicians
- 39** Technicians: Except Health, Engineering, and Science
- 41** Sales Occupations, Commodities
- 42** Insurance, Securities, Real Estate, and Service Sales Occupations
- 45** Supervisors; Clerical Occupations
- 46** Clerical Occupations, Except Equipment Operators
- 48** Computing and Office Equipment Operations
- 51** Protective Service Occupations
- 52** Service Occupations, Except Private Household and Protective
- 53** Private Household Occupations
- 55** Farm Operators and Managers
- 57** Forestry and Logging Occupations
- 58** Fishers, Hunters, and Trappers
- 61** Construction Trades
- 64** Transportation and Material Moving Occupations
- 67** Mechanics and Repairers
- 72** Precision Production Occupations
- 77** Fabricators, Assemblers, and Hand Working Occupations
- 99** Occupations Not Elsewhere Classified

Hourly Wage (Column 10)

Enter the hourly wage of the student in the appropriate character positions up to a maximum of 99.99. If there was no response by the student, enter an "X."

STUDENT FOLLOW-UP STUDY

Your cooperation in completing this study will allow us to better serve our present and future students and provide us with data that will help improve vocational education programs. Thank you in advance for your participation in this study.

INSTRUCTIONS: Complete and return to:

Student Name:	School Attended:
Area of Vocational Training:	

1. Current Educational Status (check appropriate item)

- ☐ **A** Not attending any post-secondary school
☐ **B** Attending 2 year college, **related** to high school vocational program
☐ **C** Attending 2 year college, **unrelated** to high school vocational program
☐ **D** Attending 4 year college, **related** to high school vocational program
☐ **E** Attending 4 year college, **unrelated** to high school vocational program
☐ **F** Attending other, **related** to high school vocational program
Specify:

- ☐ **G** Attending other, **unrelated** to high school vocational program
Specify:

Please indicate your current program of study if attending a post-secondary institution:

2. Current Employment Status (check appropriate item)

Employment includes all employment, full- or part-time.

- ☐ **1** Employed in a field **related** to high school vocational program
☐ **2** Employed in a field **not related** to high school vocational program
☐ **3** Military full-time, **related** to high school vocational program
☐ **4** Military full-time, **unrelated** to high school vocational program
☐ **5** Homemaker
☐ **6** Unemployed, but seeking employment
☐ **7** **Not** in labor force and **Not** pursuing employment

If employed, please indicate your:

Job Title:

Job Duties:

Hours worked during an average week: _____ Hourly wage: \$ _____._____/hr.

VEERS
Instructional Area Code
Section

INSTRUCTIONAL AREA CODES & TITLES

01.0100	AGRICULTURAL BUSINESS & MANAGEMENT
01.0200	AGRICULTURAL MECHANIZATION
01.0300	AGRICULTURAL PRODUCTION AND MANAGEMENT
01.0400	AGRICULTURAL & FOOD PRODUCTS PROCESSING
01.0500	AGRICULTURAL SUPPLIES & RELATED SERVICES
01.0600	HORTICULTURAL SERVICES & MANAGEMENT
01.0700	INTERNATIONAL AGRICULTURE
01.9900	AGRICULTURAL BUSINESS & PRODUCTION, OTHER
02.0100	AGRICULTURAL SCIENCES
02.0200	ANIMAL SCIENCES
02.0300	FOOD SCIENCES & TECHNOLOGY
02.0400	PLANT SCIENCES
02.0500	SOIL SCIENCES
02.9900	AGRICULTURAL SCIENCES, OTHER
03.0100	NATURAL RESOURCES CONSERVATION
03.0200	NATURAL RESOURCES MANAGEMENT & PROTECTIVE SERVICES
03.0300	FISHING/FISHERIES SCIENCES & MANAGEMENT
03.0400	FOREST PRODUCTION & PROCESSING
03.0500	FORESTRY & RELATED SCIENCES
03.0600	WILDLIFE & WILDLANDS MANAGEMENT
03.9900	CONSERVATION & RENEWABLE NATURAL RESOURCES, OTHER
08.0100	APPAREL & ACCESSORIES MARKETING
08.0200	BUSINESS & PERSONAL SERVICES MARKETING
08.0300	ENTREPRENEURSHIP
08.0400	FINANCIAL SERVICES MARKETING
08.0500	FLORISTRY MARKETING
08.0600	FOOD PRODUCTS MARKETING, WHOLESALE & RETAIL
08.0700	GENERAL MARKETING, WHOLESALE & RETAIL
08.0800	HOME & OFFICE PRODUCTS MARKETING
08.0900	HOSPITALITY & RECREATION MARKETING
08.1000	INSURANCE MARKETING
08.1100	TOURISM & TRAVEL SERVICES MARKETING
08.1200	VEHICLE & PETROLEUM PRODUCTS MARKETING
08.1300	HEALTH PRODUCTS & SERVICES MARKETING
08.9900	MARKETING & DISTRIBUTION, OTHER
10.0100	COMMUNICATIONS, TECHNICAL
11.0200	COMPUTER PROGRAMMING
11.0300	DATA PROCESSING, TECHNICAL
12.0400	COSMETIC SERVICES
12.0500	CULINARY ARTS & RELATED SERVICES
13.1500	TEACHER ASSISTANT/AIDE

INSTRUCTIONAL AREA CODES & TITLES

15.0100	ARCHITECTURAL ENGINEERING, TECHNICAL
15.0200	CIVIL ENGINEERING, TECHNICAL
15.0300	ELECTRICAL & ELECTRONIC ENGINEERING, TECHNICAL
15.0400	ELECTRO-MECHANICAL INSTRUMENTATION & MAINTENANCE, TECHNICAL
15.0500	ENVIRONMENTAL CONTROL, TECHNICAL
15.0600	INDUSTRIAL PRODUCTION, TECHNICAL
15.0700	QUALITY CONTROL & SAFETY, TECHNICAL
15.0800	MECHANICAL ENGINEERING, TECHNICAL
15.0900	MINING & PETROLEUM ENGINEERING, TECHNICAL
15.1000	CONSTRUCTION & BUILDING, TECHNICAL
15.9900	ENGINEERING RELATED - OTHER, TECHNICAL
20.0200	CHILD CARE - GUIDANCE WORKERS & MANAGERS
20.0300	CLOTHING APPAREL - TEXTILE WORKERS & MANAGERS
20.0400	INSTITUTIONAL FOOD WORKERS & MANAGERS
20.0500	HOME FURNISHINGS - EQUIPMENT INSTALLERS & CONSULTANTS
20.0600	CUSTODIAL, HOUSEKEEPING & HOME SERVICES WORKERS & MANAGERS
20.9900	WAGE EARNING HOME ECONOMICS, OTHER
22.0100	LAW & LEGAL STUDIES
25.0300	LIBRARY ASSISTANT
41.0100	BIOLOGICAL TECHNOLOGY/TECHNICIAN
41.0200	NUCLEAR & INDUSTRIAL RADIOLOGIC TECHNOLOGY/TECHNICIAN
41.0300	PHYSICAL SCIENCE TECHNOLOGY/TECHNICIAN
43.0100	CRIMINAL JUSTICE & CORRECTIONS
43.0200	FIRE PROTECTION
46.0100	MASONS & TILE SETTERS
46.0200	CARPENTERS
46.0300	ELECTRICAL & POWER TRANSMISSION INSTALLERS
46.0400	CONSTRUCTION & BUILDING FINISHERS
46.0500	PLUMBERS & PIPEFITTERS
46.9900	CONSTRUCTION TRADES, OTHER
47.0100	ELECTRICAL & ELECTRONICS EQUIPMENT INSTALLERS/REPAIRERS
47.0200	HEATING, AIR CONDITIONING & REFRIGERATION MECHANICS
47.0300	INDUSTRIAL EQUIPMENT MAINTENANCE & REPAIRERS
47.0400	MISC. MECHANICS & REPAIRERS
47.0500	STATIONARY ENERGY SOURCES INSTALLERS & REPAIRERS
47.0600	VEHICLE & MOBILE EQUIPMENT MECHANICS/REPAIRERS
47.9900	MECHANICS & REPAIRERS, OTHER
48.0100	DRAFTING
48.0200	GRAPHIC & PRINTING EQUIPMENT OPERATORS
48.0300	LEATHERWORKERS & UPHOLSTERS
48.0500	PRECISION METAL WORKERS
48.0700	WOODWORKERS

INSTRUCTIONAL AREA CODES & TITLES

48.9900	PRECISION PRODUCTION TRADES, OTHER
49.0100	AIR TRANSPORTATION WORKERS
49.0200	VEHICLE & EQUIPMENT OPERATORS
49.0300	WATER TRANSPORTATION WORKERS
49.9900	TRANSPORTATION & MATERIALS MOVING WORKERS, OTHER
50.0400	DESIGN & APPLIED ARTS TECHNICIANS
51.0300	COMMUNITY HEALTH SERVICES
51.0600	DENTAL SERVICES
51.0700	HEALTH & MEDICAL ADMINISTRATIVE SERVICES
51.0800	HEALTH & MEDICAL ASSISTANTS
51.0900	HEALTH & MEDICAL DIAGNOSTIC/TREATMENT SERVICES
51.1000	HEALTH & MEDICAL LAB TECHNICIANS
51.1613	PRACTICAL NURSE
51.1614	NURSE ASSISTANT/AIDE
51.1615	HOME HEALTH AIDE
51.2300	REHABILITATION/THERAPEUTIC SERVICES
51.2600	MISC. HEALTH AIDES
51.9900	HEALTH PROFESSIONS & RELATED, OTHER
52.0100	GENERAL BUSINESS
52.0300	ACCOUNTING
52.0400	ADMINISTRATIVE & SECRETARIAL SERVICES
52.0500	BUSINESS COMMUNICATIONS
52.1200	BUSINESS INFORMATION SYSTEMS
52.9900	BUSINESS MANAGEMENT & ADMINISTRATIVE SERVICES, OTHER

**District-School Listing
Section**
(Sorted by District Name and School Name)

District Name	School Name	District Code	School Code
Abbotsford	Abbotsford HS	0007	0040
Abbotsford	Falcon Enterprise Alternative HS	0007	0400
Adams-Friendship	Adams-Friendship HS	0014	0040
Adams-Friendship	Alternative Education School	0014	0400
Albany	Albany HS	0063	0040
Algoma	Algoma HS	0070	0040
Alma	Alma HS	0084	0040
Alma Center	Lincoln HS	0091	0060
Almond-Bancroft	Almond HS	0105	0040
Altoona	Altoona HS	0112	0040
Amery	Amery HS	0119	0040
Antigo	Antigo HS	0140	0070
Appleton	Appleton Central Alternative School	0147	0400
Appleton	East HS	0147	0020
Appleton	North HS	0147	0030
Appleton	Renaissance Sch	0147	0420
Appleton	West HS	0147	0040
Arcadia	Arcadia HS	0154	0040
Argyle	Argyle HS	0161	0040
Arrowhead UHS	Arrowhead HS	2450	0020
Ashland	Ashland HS	0170	0020
Ashwaubenon	Ashwaubenon HS	0182	0020
Athens	Athens HS	0196	0040
Auburndale	Auburndale HS	0203	0060
Augusta	Augusta HS	0217	0040
Baldwin-Woodville	Baldwin-Woodville HS	0231	0040
Bangor	Bangor HS	0245	0040
Baraboo	Baraboo HS	0280	0040
Barneveld	Barneveld HS	0287	0040
Barron	Barron HS	0308	0030
Bayfield	Bayfield HS	0315	0040
Beaver Dam	Beaver Dam HS	0336	0040
Beecher-Dunbar-Pembine	Pembine HS	4263	0060
Belleville	Belleville HS	0350	0040
Belmont	Belmont HS	0364	0040
Beloit	Knight's Academy	0413	0400
Beloit	Memorial HS	0413	0200
Beloit Turner	Turner HS	0422	0020
Benton	Benton HS	0427	0040
Berlin	Berlin HS	0434	0040
Big Foot UHS	Big Foot HS	6013	0020
Birchwood	Birchwood HS	0441	0040
Black Hawk	Black Hawk HS	2240	0020
Black River Falls	Black River Falls HS	0476	0040
Bloomer	Bloomer HS	0497	0040
Bonduel	Bonduel HS	0602	0040
Boscobel	Boscobel HS	0609	0040
Bowler	Bowler HS	0623	0040
Boyceville Community	Boyceville HS	0637	0040
Brillion	Brillion HS	0658	0040
Brodhead	Brodhead HS	0700	0040
Brown Deer	Brown Deer HS	0721	0040
Bruce	Bruce HS	0735	0040
Burlington	Burlington HS	0777	0020

District Name	School Name	District Code	School Code
Butternut	Butternut HS	0840	0040
Cadott Community	Cadott HS	0870	0040
Cambria-Friesland	Cambria Friesland HS	0882	0040
Cambridge	Cambridge HS	0896	0040
Cameron	Cameron HS	0903	0040
Campbellsport	Campbellsport HS	0910	0040
Cashton	Cashton HS	0980	0040
Cassville	Cassville HS	0994	0040
Cedar Grove-Belgium Sch D	Cedar Grove HS	1029	0040
Cedarburg	Cedarburg HS	1015	0020
Central/Westosha UHS	Central HS	5054	0020
Chetek	Chetek HS	1078	0040
Chilton	Chilton HS	1085	0040
Chippewa Falls	Chippewa Falls HS	1092	0060
Chippewa Falls	County Alternative HS	1092	0020
Clayton	Clayton HS	1120	0040
Clear Lake	Clear Lake HS	1127	0040
Clinton Community	Clinton HS	1134	0060
Clintonville	Clintonville HS	1141	0040
Cochrane-Fountain City	Cochrane-Fountain City HS	1155	0040
Colby	Colby HS	1162	0040
Coleman	Coleman HS	1169	0060
Colfax	Academic Center	1176	0400
Colfax	Colfax HS	1176	0040
Columbus	Columbus HS	1183	0040
Cornell	Cornell HS	1204	0040
Crandon	Crandon HS	1218	0060
Crivitz	Crivitz HS	1232	0040
Cuba City	Cuba City HS	1246	0040
Cudahy	Cudahy HS	1253	0040
Cumberland	Cumberland HS	1260	0060
D C Everest	D C Everest HS	4970	0035
Darlington Community	Darlington HS	1295	0040
De Forest	De Forest HS	1316	0040
De Pere	De Pere HS	1414	0020
De Soto	De Soto HS	1421	0040
Deerfield Community	Deerfield Charter HS	1309	0080
Deerfield Community	Deerfield HS	1309	0040
Delavan-Darien	Delavan-Darien HS	1380	0020
Denmark	Denmark HS	1407	0080
DHFS	Central Wisconsin Center	7100	7101
DHFS	Mendota Mental Health Institution	7100	7104
DHFS	Northern Wisconsin Center	7100	7102
DHFS	Southern Wisconsin Center	7100	7103
DHFS	Winnebago Mental Health Institution	7100	7105
DHFS	Wisconsin Resource Center	7100	7106
DOC	Black River Correctional Center	7000	7002
DOC	Columbia Correctional Institution	7000	7012
DOC	Ethan Allen School	7000	7151
DOC	Fox Lake Correctional Institution	7000	7008
DOC	Green Bay Correctional Institution	7000	7010
DOC	Jackson Correctional Institution	7000	7015
DOC	Kettle Moraine Correctional Institution	7000	7004
DOC	Lincoln Hills School	7000	7152

District Name	School Name	District Code	School Code
DOC	Oakhill Correctional Institution	7000	7006
DOC	Oshkosh Correctional Institution	7000	7011
DOC	Prairie du Chien Correctional Inst	7000	7155
DOC	Racine Correctional Institution	7000	7013
DOC	Racine Youthful Offender	7000	7014
DOC	Southern Oaks Girls School	7000	7153
DOC	Supermax Correctional Institution	7000	7156
DOC	Taycheedah Correctional Institution	7000	7007
DOC	Waupun Correctional Institution	7000	7009
DOC	Youth Leadership Training Center	7000	7154
Dodgeland	Dodgeland HS	2744	0022
Dodgeville	Dodgeville HS	1428	0040
DPI	Wis School Visually Handicapped	7300	7302
DPI	Wisconsin School for the Deaf	7300	7301
Drummond	Drummond HS	1491	0040
Durand	Durand HS	1499	0040
East Troy Community	East Troy HS	1540	0040
Eau Claire	McKinley Charter School	1554	0580
Eau Claire	Memorial HS	1554	0340
Eau Claire	North HS	1554	0400
Eau Claire	Technology Charter Sch	1554	0410
Edgar	Edgar HS	1561	0040
Edgerton	Edgerton HS	1568	0080
Elcho	Elcho HS	1582	0040
Eleva-Strum	Eleva-Strum HS	1600	0060
Elk Mound	Elk Mound HS	1645	0040
Elkhart Lake-Glenbeulah Sch Di	Elkhart Lake HS	1631	0040
Elkhorn	Elkhorn Area HS	1638	0040
Elkhorn	Walworth Co Educ Alt HS	1638	0420
Ellsworth Community	Ellsworth HS	1659	0040
Elmbrook	East HS	0714	0060
Elmbrook	Fairview South HS	0714	0160
Elmbrook	Central HS	0714	0020
Elmwood	Elmwood HS	1666	0040
Evansville Community	Evansville HS	1694	0040
Fall Creek	Fall Creek HS	1729	0040
Fall River	Fall River HS	1736	0040
Fennimore	Fennimore HS	1813	0040
Flambeau	Flambeau HS	5757	0040
Florence	Florence HS	1855	0060
Fond du Lac	Goodrich HS	1862	0140
Fort Atkinson	Fort Atkinson HS	1883	0080
Fort Atkinson	Luther Alternative Education School	1883	0400
Franklin Public	Franklin HS	1900	0060
Frederic	Frederic HS	1939	0040
Freedom	Freedom HS	1953	0060
Galesville-Ettrick-Trempealeau	Galesville-Ettrick-Trempealeau HS	2009	0040
Germantown	Germantown HS	2058	0180
Gibraltar	Gibraltar HS	2114	0120
Gillett	Gillett HS	2128	0020
Gilman	Gilman HS	2135	0060
Gilmanton	Gilmanton HS	2142	0060
Glenwood City	Glenwood City HS	2198	0080
Glenwood City	Transitional Skills Center	2198	0400

District Name	School Name	District Code	School Code
Glidden	Glidden HS	2205	0040
Goodman-Armstrong	Goodman HS	2212	0040
Grafton	Grafton HS	2217	0040
Granton	Granton HS	2226	0040
Grantsburg	Grantsburg HS	2233	0080
Green Bay	East HS	2289	0180
Green Bay	Preble HS	2289	0540
Green Bay	Southwest HS	2289	0600
Green Bay	West HS	2289	0720
Green Lake	Green Lake HS	2310	0040
Greendale	Greendale HS	2296	0060
Greenfield	Greenfield HS	2303	0120
Greenwood	Greenwood HS	2394	0060
Hamilton	Hamilton HS	2420	0040
Hartford UHS	Hartford HS	2436	0020
Hayward Community	Alternative HS	2478	0080
Hayward Community	Hayward HS	2478	0040
Highland	Highland HS	2527	0040
Hilbert	Hilbert HS	2534	0040
Hillsboro	Hillsboro HS	2541	0060
Holmen	Holmen HS	2562	0040
Horicon	Horicon HS	2576	0060
Hortonville	Hortonville HS	2583	0040
Howards Grove	Howards Grove HS	2605	0060
Howard-Suamico	Bay Port HS	2604	0020
Hudson	Hudson HS	2611	0080
Hurley	Hurley HS	2618	0060
Hustisford	Hustisford HS	2625	0040
Independence	Independence HS	2632	0040
Indian Community Sch	Indian Community Sch	7354	1590
Iola-Scandinavia	Iola-Scandinavia HS	2639	0040
Iowa-Grant	Iowa-Grant HS	2646	0040
Ithaca	Ithaca HS	2660	0060
Janesville	Craig HS	2695	0060
Janesville	Parker HS	2695	0280
Janesville	Rock River Charter School	2695	0400
Jefferson	Jefferson County Alternative	2702	0400
Jefferson	Jefferson HS	2702	0080
Johnson Creek	Johnson Creek HS	2730	0040
Juda	Juda HS	2737	0040
Kaukauna	Kaukauna HS	2758	0040
Kenosha	Hillcrest HS	2793	0280
Kenosha	Bradford HS	2793	0060
Kenosha	Indian Trail Academy	2793	0410
Kenosha	Kenosha House of Corrections	2793	0405
Kenosha	Lakeview Technology Academy	2793	0480
Kenosha	Reuther Central HS	2793	0450
Kenosha	Tremper HS	2793	0580
Kettle Moraine	Kettle Moraine HS	1376	0120
Kewaskum	Kewaskum HS	2800	0080
Kewaunee	Kewaunee HS	2814	0100
Kewaunee	Lakeshore Alternative School	2814	0400
Kickapoo Area	Kickapoo HS	5960	0020
Kiel	Kiel HS	2828	0040

District Name	School Name	District Code	School Code
Kimberly	Kimberly HS	2835	0080
Kohler	Kohler HS	2842	0040
La Crosse	Central HS	2849	0020
La Crosse	La Crosse HS Sch Charter Sch	2849	0410
La Crosse	La Crosse Juvenile Detention	2849	0380
La Crosse	Logan HS	2849	0220
La Crosse	Western Wisconsin Technical College	2849	0400
La Farge	La Farge HS	2863	0040
Lac Courte Oreilles Ojibwe Schools	Lac Courte Oreilles Ojibwe Schools	7351	1639
Ladysmith-Hawkins	Ladysmith Evening Alternative School	2856	0120
Ladysmith-Hawkins	Ladysmith HS	2856	0080
Lake Geneva-Genoa City UHS Sch	Badger Career Campus	2884	0400
Lake Geneva-Genoa City UHS Sch	Badger HS	2884	0020
Lake Holcombe	Holcombe HS	2891	0040
Lake Mills	Lake Mills HS	2898	0040
Lakeland UHS	Lakeland HS	3647	0020
Lancaster	Lancaster Academy	2912	0400
Lancaster Community	Lancaster HS	2912	0020
Laona	Laona HS	2940	0020
Lena	Lena HS	2961	0040
Little Chute	Little Chute HS	3129	0040
Lodi	Lodi Charter Sch	3150	0400
Lodi	Lodi HS	3150	0080
Lomira	Lomira HS	3171	0060
Loyal	Loyal HS	3206	0060
Luck	Luck HS	3213	0060
Luxemburg-Casco	Luxemburg-Casco HS	3220	0140
Madison	SAPAR Program	3269	0480
Madison Metropolitan	Accelerated Learning Academy HS	3269	0010
Madison Metropolitan	Diploma Completion HS	3269	0012
Madison Metropolitan	East HS	3269	0150
Madison Metropolitan	LaFollette HS	3269	0420
Madison Metropolitan	Memorial HS	3269	0360
Madison Metropolitan	Shabazz-City HS	3269	0400
Madison Metropolitan	West HS	3269	0840
Madison Metropolitan	Work & Learning HS	3269	0700
Manawa	Little Wolf HS	3276	0040
Manitowoc	Lincoln HS	3290	0140
Maple	Northwestern HS	3297	0160
Marathon City	Marathon HS	3304	0040
Marinette	Marinette HS	3311	0060
Marion	Marion HS	3318	0100
Markesan	Markesan HS	3325	0120
Marshall	Marshall HS	3332	0040
Marshall	The Fifth Dimension	3332	0400
Marshfield	Marshfield HS	3339	0120
Mashkiisiibii (Bad River) Tribal Schools	Mashkiisiibii (Bad River) Tribal Schools	7355	2018
Mauston	Mauston HS	3360	0060
Mayville	Mayville HS	3367	0080
McFarland	McFarland HS	3381	0080
Medford	Medford HS	3409	0220
Mellen	Mellen HS	3427	0060
Melrose-Mindoro	Melrose-Mindoro HS	3428	0040
Menasha	Menasha HS	3430	0100

District Name	School Name	District Code	School Code
Menominee Indian	Menominee Indian HS	3434	0040
Menominee Tribal Schools	Menominee Tribal Schools	7352	1810
Menomonee Falls	Menomonee Falls HS	3437	0110
Menomonie	Lucas Charter School	3444	0400
Menomonie	Menomonie HS	3444	0180
Mequon-Thiensville	Homestead HS	3479	0060
Merrill	Merrill HS	3500	0140
Middleton-Cross Plains	Middleton Alternative HS	3549	0180
Middleton-Cross Plains	Middleton HS	3549	0060
Milton	Milton HS	3612	0100
Milwaukee	Bay View HS	3619	0012
Milwaukee	Custer HS	3619	0016
Milwaukee	Hamilton HS	3619	0018
Milwaukee	Juneau HS	3619	0003
Milwaukee	Kilmer South Alternative HS	3619	0236
Milwaukee	King HS	3619	0020
Milwaukee	Madison HS	3619	0022
Milwaukee	Marshall HS	3619	0008
Milwaukee	Metropolitan HS	3619	0500
Milwaukee	Milwaukee County Youth Education Center	3619	0315
Milwaukee	Milwaukee HS of the Arts	3619	0038
Milwaukee	Milwaukee School of Entrepreneurship	3619	0023
Milwaukee	Milwaukee Trade & Tech HS	3619	0014
Milwaukee	New School for Community Services	3619	0027
Milwaukee	North Division HS	3619	0024
Milwaukee	Project School to Work	3619	0404
Milwaukee	Project STAY	3619	0240
Milwaukee	Project Stay Senior Institute	3619	0458
Milwaukee	Pulaski HS	3619	0026
Milwaukee	Riverside HS	3619	0029
Milwaukee	South Division HS	3619	0032
Milwaukee	Vincent HS	3619	0033
Milwaukee	Washington HS	3619	0035
Mineral Point	Mineral Point HS	3633	0080
Mishicot	Mishicot HS	3661	0040
Mondovi	Mondovi HS	3668	0100
Monona Grove	Monona Grove Alternative HS	3675	0410
Monona Grove	Monona Grove HS	3675	0060
Monroe	Monroe Alternative Charter School	3682	0410
Monroe	Monroe HS	3682	0120
Montello	Montello HS	3689	0040
Monticello	Monticello HS	3696	0040
Mosinee	Mosinee HS	3787	0100
Mount Horeb	Mount Horeb HS	3794	0120
Mukwonago	Mukwonago HS	3822	0060
Muskego-Norway	Muskego HS	3857	0180
Necedah	Necedah HS	3871	0040
Neenah	Neenah HS	3892	0180
Neillsville	Clark Co Alternative Charter	3899	0400
Neillsville	Neillsville HS	3899	0040
Nekoosa	Nekoosa HS	3906	0060
New Auburn	New Auburn HS	3920	0040
New Berlin	Eisenhower HS	3925	0050
New Berlin	New Berlin HS	3925	0140

District Name	School Name	District Code	School Code
New Glarus	New Glarus HS	3934	0040
New Holstein	New Holstein HS	3941	0080
New Lisbon	Juneau County Charter School	3948	0400
New Lisbon	New Lisbon HS	3948	0060
New London	New London HS	3955	0080
New Richmond	New Richmond HS	3962	0060
Niagara	Niagara HS	3969	0040
Nicolet UHS	Nicolet HS	2177	0020
Norris	Norris HS	3976	0020
North Crawford	North Crawford HS	2016	0120
North Fond du Lac	Horace Mann HS	3983	0060
Northern Ozaukee	Ozaukee HS	1945	0060
Northland Pines	Northland Pines HS	1526	0090
Norwalk-Ontario-Wilton	Brookwood HS	3990	0020
Oak Creek-Franklin	Oak Creek HS	4018	0140
Oakfield	Oakfield HS	4025	0060
Oconomowoc	Oconomowoc HS	4060	0130
Oconto	Oconto HS	4067	0100
Oconto Falls	Alternative Learning Site	4074	0400
Oconto Falls	Oconto Falls HS	4074	0200
Omro	Omro HS	4088	0060
Onalaska	Onalaska HS	4095	0040
Oneida Nation Schools	Oneida Nation Schools	7353	2095
Oostburg	Oostburg HS	4137	0080
Oregon	Oregon HS	4144	0060
Osceola	Osceola HS	4165	0060
Oshkosh	North HS	4179	0290
Oshkosh	West HS	4179	0300
Osseo-Fairchild	Osseo-Fairchild HS	4186	0080
Owen-Withee	Owen-Withee HS	4207	0060
Palmyra-Eagle	Palmyra-Eagle HS	4221	0015
Pardeeville	Pardeeville HS	4228	0080
Park Falls	Park Falls HS	4242	0060
Parkview	Parkview Charter Sch	4151	0450
Parkview	Parkview HS	4151	0100
Pecatonica	Pecatonica HS	0490	0040
Pepin Area	Pepin HS	4270	0040
Peshtigo	Peshtigo HS	4305	0100
Pewaukee	Pewaukee HS	4312	0080
Phelps	Phelps HS	4330	0020
Phillips	Phillips HS	4347	0120
Pittsville	Pittsville HS	4368	0040
Platteville	Platteville HS	4389	0060
Plum City	Plum City HS	4459	0040
Plymouth	Plymouth HS	4473	0100
Port Edwards	John Edwards HS	4508	0040
Port Washington-Saukville	Port Washington HS	4515	0100
Portage Community	Portage Academy of Achievement	4501	0400
Portage Community	Portage HS	4501	0180
Potosi	Potosi HS	4529	0040
Poynette	Poynette HS	4536	0080
Prairie du Chien	Prairie du Chien HS	4543	0060
Prairie Farm	Prairie Farm HS	4557	0040
Prentice	Prentice HS	4571	0060

District Name	School Name	District Code	School Code
Prescott	Prescott HS	4578	0060
Pulaski Community	Pulaski HS	4613	0100
Racine	Case HS	4620	0491
Racine	Horlick HS	4620	0492
Racine	Keith R Mack Achievement Center	4620	0490
Racine	Mack Alternative Center	4620	0021
Racine	Park HS	4620	0494
Racine	Walden III HS	4620	0499
Randolph	Randolph HS	4634	0040
Random Lake	Random Lake HS	4641	0080
Reedsburg	Reedsburg Area HS	4753	0080
Reedsville	Reedsville HS	4760	0040
Rhineland	Rhineland HS	4781	0180
Rib Lake	Rib Lake HS	4795	0060
Rice Lake	Rice Lake HS	4802	0180
Richland	Richland Center HS	4851	0320
Rio Community	Rio HS	4865	0040
Ripon	Ripon HS	4872	0120
River Falls	River Falls HS	4893	0080
River Falls	River Falls Renaissance Alt Charter School	4893	0410
River Ridge	River Ridge HS	4904	0080
River Valley	River Valley HS	5523	0110
Riverdale	Riverdale HS	3850	0120
Rosendale-Brandon	Laconia HS	4956	0050
Rosholt	Rosholt HS	4963	0040
Royall	Royall HS	1673	0060
Saint Croix Central	Saint Croix HS	2422	0060
Saint Croix Falls	Saint Croix Falls HS	5019	0080
Saint Francis	Horizon Academy	5026	0400
Saint Francis	Saint Francis HS	5026	0040
Sauk Prairie	Sauk Prairie HS	5100	0120
Seneca	Seneca HS	5124	0080
Sevastopol	Sevastopol HS	5130	0040
Seymour Community	Seymour HS	5138	0100
Shawano-Gresham	Gresham HS	5264	0120
Shawano-Gresham	Shawano HS	5264	0280
Sheboygan	North HS	5271	0280
Sheboygan	South HS	5271	0340
Sheboygan Falls	Sheboygan Falls HS	5278	0040
Shell Lake	Shell Lake HS	5306	0040
Shiocton	Shiocton HS	5348	0040
Shorewood	Shorewood HS	5355	0080
Shullsburg	Shullsburg HS	5362	0080
Siren	Siren HS	5376	0040
Slinger	Slinger HS	5390	0080
Somerset	Somerset HS	5432	0040
South Milwaukee	South Milwaukee HS	5439	0120
South Shore	South Shore HS	4522	0100
Southern Door	Southern Door HS	5457	0220
Southwestern Wisconsin	Southwestern Wisconsin HS	2485	0060
Sparta	Sparta HS	5460	0160
Spencer	Spencer HS	5467	0040
Spooner	Spooner HS	5474	0080
Spring Valley	Spring Valley HS	5586	0080

District Name	School Name	District Code	School Code
Stanley-Boyd	Stanley-Boyd HS	5593	0080
Stevens Point	Alternative HS	5607	0310
Stevens Point	Juvenile Detention	5607	0320
Stevens Point	Stevens Point Area HS	5607	0270
Stevens Point	TEAMS	5607	0300
Stockbridge	Stockbridge HS	5614	0040
Stoughton	Stoughton HS	5621	0140
Stratford	Stratford HS	5628	0040
Sturgeon Bay	Sturgeon Bay HS	5642	0010
Sun Prairie	Dane County Transition School	5656	0401
Sun Prairie	Sun Prairie Alternative HS	5656	0400
Sun Prairie	Sun Prairie HS	5656	0100
Superior	Northland Secondary	5663	0200
Superior	Superior HS	5663	0280
Suring	Suring HS	5670	0080
Thorp	Thorp HS	5726	0040
Three Lakes	Three Lakes HS	5733	0080
Tigerton	Tigerton HS	5740	0040
Tomah	Tomah HS	5747	0180
Tomahawk	Tomahawk HS	5754	0200
Tomorrow River	Amherst HS	0126	0060
Tri-County	Tri-County HS	4375	0060
Turtle Lake	Turtle Lake HS	5810	0040
Two Rivers	Washington HS	5824	0080
Union Grove UHS	Union Grove HS	5852	0020
Unity	Unity HS	0238	0100
Valders	Valders HS	5866	0060
Verona	Verona Area HS	5901	0100
Viroqua	Laurel HS	5985	0410
Viroqua	Viroqua HS	5985	0220
Wabeno Area	Wabeno HS	5992	0080
Washburn	Washburn HS	6027	0040
Washington	Washington Island HS	6069	0040
Waterford UHS	Waterford HS	6083	0020
Waterloo	Waterloo HS	6118	0040
Watertown	Watertown HS	6125	0140
Waukesha	North HS	6174	0290
Waukesha	South HS	6174	0460
Waukesha	West HS	6174	0560
Waunakee Community	Waunakee HS	6181	0040
Waupaca	Waupaca Accelerated Learning Center	6195	0040
Waupaca	Waupaca County Charter School	6195	0400
Waupaca	Waupaca HS	6195	0140
Waupun	Waupun HS	6216	0200
Wausau	East HS	6223	0360
Wausau	West HS	6223	0380
Wausaukee	Wausaukee HS	6230	0100
Wautoma	Wautoma HS	6237	0140
Wauwatosa	East HS	6244	0020
Wauwatosa	West HS	6244	0280
Wauzeka-Steuben	Wauzeka HS	6251	0040
Webster	Webster HS	6293	0080
West Allis	Central HS	6300	0020
West Allis	Hale HS	6300	0340

District Name	School Name	District Code	School Code
West Bend	East HS	6307	0050
West Bend	West HS	6307	0200
West De Pere	West De Pere HS	6328	0120
West Salem	West Salem HS	6370	0080
Westby	Westby HS	6321	0200
Westfield	Pioneer Westfield HS	6335	0100
Weston	Weston HS	6354	0100
Weyauwega-Fremont	Weyauwega HS	6384	0100
Weyerhaeuser	Weyerhaeuser HS	6410	0040
White Lake	White Lake HS	6440	0040
Whitefish Bay	Whitefish Bay HS	6419	0100
Whitehall	Whitehall HS	6426	0120
Whitewater	Whitewater HS	6461	0140
Whitnall	Whitnall HS	6470	0100
Wild Rose	Wild Rose HS	6475	0060
Williams Bay	Williams Bay HS	6482	0040
Wilmot UHS	Wilmot HS	6545	0020
Winneconne Community	Winneconne HS	6608	0060
Winter	Winter HS	6615	0080
Wisconsin Dells	Kilbourn Academy	6678	0400
Wisconsin Dells	Wisconsin Dells HS	6678	0100
Wisconsin Heights	Wisconsin Heights HS	0469	0060
Wisconsin Rapids	Lincoln HS	6685	0160
Wisconsin Rapids	Wisconsin Rapids Charter Sch	6685	0400
Wittenberg-Birnamwood	Wittenberg-Birnamwood HS	6692	0140
Wonewoc-Union Center	Wonewoc HS	6713	0080
Wrightstown Community	Wrightstown HS	6734	0040

Note: If you do not find a listing for a particular high school for your district either consult the current year's DPI Wisconsin School Directory or go to the DPI Website listing at: <http://www.dpi.state.wi.us/dpi/schldist.html>

rev. 10/01 source: DPI Educational Statistics Section

Detailed Standard Occupational Classification Listing

Section

Detailed Standard Occupational Classification (SOC) Codes

This is a listing of all Standard Occupational Classification (SOC) codes. This is a code table developed by the US Department of (Labor) to classify occupations. Please note that this code describes occupations held by individuals and does not describe the industries in which people work hold.

Code	Job Title or Occupation
1400	Management-Related Occupations
	Accountants, Auditors, and Other Financial Specialists
	Accountants and Auditors
	Underwriters
	Loan Officers
	Financial Officers, Other
	Management Analysts
	Personnel, Training, and Labor Relations Specialists
	Purchasing Agents and Buyers
	Buyers: Wholesale and Retail Trade, Except Farm Products
	Purchasing Agents and Buyers, Farm Products
	Purchasing Agents and Buyers, N.E.C.
	Business and Promotion Agents
	Inspectors and Compliance Officers
	Construction Inspectors
	Inspectors and Compliance Officers, Except Construction
1700	Computer, Mathematical, and Operations Research Occupations
	Computer Scientists
	Computer Systems Analysts
	Operations and Research Analysts
	Operations Researchers and Analysts
	Systems Researchers and Analysts, Except Computer
	Mathematical Scientists
	Actuaries
	Statisticians
2900	Registered Nurses
3200	Writers, Artists, Performers, and Related Workers
	Authors
	Designers
	Musicians and Composers
	Actors and Directors
	Painters, Sculptors, Craft-Artists, and Artist-Printmakers
	Photographers
	Dancers
3600	Health Technologists and Technicians
	Clinical Laboratory Technologists and Technicians
	Dental Hygienists
	Health Record Technologists and Technicians
	Radiologic Technologists and Technicians
	Licensed Practical Nurses
	Dental Assistants
	Health Aides, Except Nursing
	Nursing Aides, Orderlies, and Attendants

Code	Job Title or Occupation
3700	Engineering and Related Technologists and Technicians Engineering Technologists and Technicians Electrical and Electronic Engineering Technologists and Technicians Industrial Engineering Technologists Mechanical Engineering Technologists & Technicians Drafting Occupations Surveying and Mapping Technicians Surveying Technicians Cartographic Technicians
3800	Science Technologists and Technicians Biological Technologists and Technicians, Except Health Chemical and Nuclear Technologists and Technicians Chemical Technologists and Technicians Nuclear Technologists and Technicians Petroleum Technologists and Technicians Mathematical Technicians
3900	Technicians: Except Health, Engineering, and Science Air Traffic Controllers Radio Operators Legal Technicians Programmers Programmers, Business Programmers, Scientific Programmers: Numerical, Tool, and Process Control Technical Writers
4100	Sales Occupations, Commodities Sales Engineers Technical Sales Workers and Service Advisors Technical Sales Workers, Aircraft Technical Sales Workers, Agricultural Equipment and Supplies Technical Sales Workers, Electronic Equipment Technical Sales Workers: Industrial Machinery, Equipment and Supplies Technical Sales Workers: Medical and Dental Equipment and Supplies Technical Sales Workers: Chemicals & Chemical Products Sales Representatives: Commercial and Industrial Equipment and Supplies Sales Representatives, Garments and Related Textile Products Sales Representatives: Motor Vehicles and Supplies Sales Representatives; Pulp, Paper, and Paper Products Sales Representatives; Farm Products and Livestock Salespersons; Motor Vehicles, Mobile Homes, and Supplies Salespersons; Musical Instruments and Supplies Salespersons; Boats and Marine Equipment and Supplies Salespersons: Sporting Goods Salespersons: Garments and Textile Products Salespersons: Books, Stamps, Coins, and Stationery Salespersons: Furniture and Home Furnishings Salespersons, Shoes Salespersons: Radio, Television, High Fidelity and Household Appliances Salespersons: Hardware Salespersons: Cosmetics, Toiletries, and Allied Products Salespersons: Jewelry and Related Products

Code	Job Title or Occupation
4100	Sales Clerks Counter Clerks Cashiers News Vendors Street Vendors, Door-To-Door Salesworkers, and Related Occupations Salesperson: Parts
4200	Insurance, Securities, Real Estate & Business Service Sales Occupations Insurance, Real Estate, and Securities Sales Occupations Insurance Sales Occupations Real Estate Sales Occupations Securities and Financial Service Sales Occupations Business Service Sales Occupations Business Service Sales Occupations (Except Advertising) Advertising and Related Sales Occupations
4500	Supervisors; Administrative Support Occupations, Including Clerical Supervisors: General Office Occupations Supervisors: Computer and Peripheral Equipment Operators Supervisors: Secretaries, Stenographers, and Typists Supervisors: Information Clerks Supervisors, Correspondence Clerks and Order Clerks Supervisors; Records Clerks Supervisors: Financial Record Processing Occupations Supervisors: Duplicating, Mail, and Other Office Machine Operators Chief Communications Operators Supervisors: Mail and Message Distribution Clerks Supervisors: Material Recording, Scheduling, and Distributing Clerks Supervisors: Adjusters, Investigators, and Collectors
4600	Clerical Occupations, Except Equipment Operators Secretaries Stenographers Typists General Office Occupations Information Clerks Interviewing Clerks Hotel Clerks Reservation Agents and Transportation Ticket Clerks Receptionists Correspondence Clerks and Order Clerks Classified Ad Clerks Correspondence Clerks Order Clerks Record Clerks Personnel Clerks, Except Payroll and Timekeeping Library Clerks File Clerks Financial Record Processing Occupations Bookkeepers and Accounting and Auditing Clerks Payroll and Timekeeping Clerks Billing Clerks Cost and Rate Clerks Mail and Message Distributing Occupations Postal Clerks, Except Mail Carriers

Code	Job Title or Occupation
4600	Mail Carriers, Post Office Mail Clerks, Except Post Office Messengers Material Recording, Scheduling, and Distributing Clerks Dispatchers Production and Planning Clerks Traffic, Shipping, and Receiving Clerks Stock and Inventory Clerks Meter Readers Weighers, Measurers, and Checkers Samplers Expediteurs Adjusters, Investigators, and Collectors Insurance Adjusters, Examiners, and Investigators Investigators and Adjusters, Except Insurance Clerks, Social Welfare Bill and Account Collectors License Clerks Bank Tellers Proofreaders Statistical Clerks Teacher Aides
4800	Computer and Peripheral Equipment Operators Computer Operators Peripheral Equipment Operators Data Entry Keyers Office Machine Operators, N.E.C. Communications Equipment Operators Telephone Operators Telegraphers Billing, Posting, and Calculating Machine Operators Duplicating, Mail, and Other Office Machine Operators Duplicating Machine Operators Mail Preparing and Handling Machine Operators
5100	Protective Service Occupations Supervisors:Service Occupations, Protective Supervisors:Firefighting and Fire Prevention Occupations Supervisors: Police and Detectives Supervisors: Guards Firefighting and Fire Prevention Occupations Fire Inspection and Fire Prevention Occupations Police and Detectives Correctional Institution Officers Sheriffs, Bailiffs, and Other Law Enforcement Officers Guards Crossing Guards
5200	Service Occupations, Except Private Household and Protective Food and Beverage Preparation and Service Occupations Supervisors: Food and Beverage Preparation and Service Occupations Bartenders Waiters and Waitresses Cooks

Code	Job Title or Occupation
5200	Food Counter, Fountain, and Related Occupations Kitchen Workers, Food Preparation Waiters Cleaning and Building Service Occupations, Except Private Household Supervisors: Cleaning and Building Service Workers Maids and Housemen Janitors and Cleaners Elevator Operators Pest Control Occupations Personal Service Occupations Supervisors; Personal Service Occupations Barbers Hairdressers and Cosmetologists Attendants: Amusement and Recreational Facilities Guides Ushers Public Transportation Attendants Wardrobe and Dressing Room Attendants Baggage Porters and Bellhops Welfare Service Aides Child Care Workers, Except Private Household
5300	Private Household Occupations, (see 52)
5500	Farm Operators and Managers Farmers: Working Proprietors General Farmers Crop, Vegetable, Fruit, and Tree Nut Farmers Livestock, Dairy, Poultry, and Fish Farmers Horticultural Specialty Farmers Farm Managers Managers: General Farm Managers: Crop, Vegetable, Fruit, and Tree Nut Farms Managers: Livestock, Dairy, Poultry, Andfish Farms Managers: Horticultural Specialty Farm Other Agricultural and Related Occupations Farm Occupations, Except Managerial Supervisors: Farm Workers General Farm Workers Field Crop and Vegetable Farm Workers (Hand) Orchard and Vineyard and Related Workers (Hand) Irrigation Workers Farm Machinery Operators Livestock Workers Marine Life Cultivation Workers Nursery Workers Related Agricultural Occupations Supervisors; Related Agricultural Workers Groundskeepers and Gardeners, Except Farm Animal Caretakers, Except Farm Graders and Sorters: Agricultural Products Inspectors: Agricultural Products
5700	Forestry and Logging Occupations Supervisors: Forestry and Logging Workers

Code	Job Title or Occupation
5700	Forestry Workers, Except Logging Timber Cutting and Related Occupations
5800	Fishers, Hunters, and Trappers Fishers Hunters and Trappers
6100	Construction Trades Brickmasons, Stonemasons, and Hard Tile Setters Carpenters Drywall Installers Electricians and Power Transmission Installers Electricians Electrical Power Installers and Repairers Painters, Paperhangers, and Plasterers Painters (Construction and Maintenance) Paperhangers Plasterers Plumbers, Pipefitters, and Steam Fitters Carpet and Soft Tile Installers Concrete and Terrazzo Finishers Glaziers Insulation Workers Paving, Surfacing and Tamping Equipment Operators Rail and Track Laying Equipment Operators Roofers Sheetmetal Duct Installers Structural Metal Workers Drillers, Earth Airhammer Operators Pile Driving Operators
6400	Transportation and Material Moving Occupations Supervisors:Transportation and Material Moving Occupations Supervisors:Motorized Equipment Operators Supervisors:Motor Vehicle Operators Railroad Conductors and Yardmasters Supervisors:Material Moving Equipment Operators Transportation Occupations Motor Vehicle Operators Truck Drivers, Tractor-Trailer Truck Drivers, Heavy Truck Drivers, Light (Including Delivery and Route Drivers) Bus Drivers Taxicab Drivers and Chauffeurs Driver-Sales Workers Rail Transportation Occupations Locomotive Operating Occupations Railroad Brake, Signal, and Switch Operators Water Transportation Occupations Ship Captains and Mates Boat and Barge Operators Sailors and Deck Hands Marine Engineers Bridge, Lock, and Lighthouse Tenders

Code	Job Title or Occupation
64	Transportation and Material Moving Occupations
	Airplane Pilots and Navigators
	Transportation Inspectors
	Material Moving Occupations, Except Transportation
	Material Moving Equipment Operators
	Operating Engineers
	Longshore Equipment Operators
	Hoist and Winch Operators
	Crane and Tower Operators
	Excavating and Loading Machine Operators
	Grader, Dozer, Scraper Operators
	Industrial Truck and Tractor Equipment Operators
	Material Moving Equipment Operators, Miscellaneous
	Freight, Stock, and Material Movers, Hand
	Garbage Collectors
	Stevedores
	Stock Handlers and Baggers
	Machine Feeders and Offbearers
	Garage and Service Station Related Occupations
	Parking Lot Attendants
	Vehicle Washers and Equipment Cleaners
6700	Mechanics and Repairers
	Supervisors:Mechanics and Repairers
	Vehicle and Mobile Equipment Mechanics and Repairers
	Automobile Mechanics
	Bus and Truck Engine, and Stationary Diesel Engine Mechanics
	Aircraft Engine Mechanics
	Small Engine Repairers
	Automobile Body and Related Repairers
	Aircraft Mechanics (Except Engine Specialists)
	Heavy Equipment Mechanics
	Farm Equipment Mechanics
	Industrial Machinery Repairers
	Machinery Maintenance Occupations
	Electrical and Electronic Equipment Repairers
	Communications Equipment Repairers
	Electric Motor, Transformer, and Related Repairers
	Electronic Repairers, Commercial and Industrial Equipment
	Data Processing Equipment Repairers
	Electronic Repairers, Home-Entertainment Equipment
	Household Appliance and Power Tool Repairers
	Telephone Line Installers and Repairers
	Telephone Installers and Repairers
	Miscellaneous Electrical and Electronic Equipment Repairers
	Heating, Air-Conditioning, and Refrigeration Mechanics
	Miscellaneous Mechanics and Repairers
	Camera, Watch, and Other Precision Instrument Repairers
	Musical Instrument Repairers and Tuners
	Locksmiths and Safe Repairers
	Office Machine Repairers
	Mechanical Controls and Valve Repairers
	Elevator Installers and Repairers
	Riggers
	Millwrights

Code	Job Title or Occupation
7200	Precision Production Occupations
	Precision Metal Workers
	Tool and Die Makers
	Precision Assemblers (Metal)
	Machinists
	Boilermakers
	Precision Grinders, Filers, and Tool Sharpeners
	Pattern Makers and Model Makers (Metal)
	Lay-Out Workers (Metal)
	Precision Hand Molders and Shapers (Jewelers)
	Engravers
	Sheet Metal Workers
	Precision Metal Workers, Miscellaneous
	Precision Woodworkers
	Pattern Makers and Model Makers, Wood
	Cabinet Makers and Bench Carpenters
	Furniture Finishers
	Precision Printing Occupations
	Precision Typesetters
	Precision Lithographers and Photoengravers
	Bookbinders
	Precision Printing Occupations, Miscellaneous
	Precision Textile, Apparel, and Furnishings Workers
	Tailors and Dressmakers, Hand
	Upholsterers
	Shoemakers and Leather Workers and Repairers
	Precision Laundering, Cleaning, and Dyeing Occupations
	Apparel and Fabric Patternmakers
	Precision Apparel and Fabric Workers, Miscellaneous
	Precision Workers: Assorted Materials
	Precision Hand Molders and Shapers (Except Jewelers)
	Precision Patternmakers, Lay-Out Workers, and Cutters
	Detail Design Painters and Decorators
	Optical Goods Workers
	Dental Laboratory Technicians
	Gem and Diamond Working Occupations
	Precision Electrical and Electronic Equipment Assemblers
	Photographic Process Workers
	Precision Food Production Occupations
	Butchers and Meat Cutters
	Bakers
	Batchmakers (Candymakers, Cheesemakers, Etc.)
	Precision Food Workers, Miscellaneous
	Precision Inspectors, Testers, and Related Workers
	Precision Inspectors, Testers, and Graders
	Precision Adjusters and Calibrators
	Plant and System Operators
	Water and Sewage Treatment Plant Operators
	Gas Plant Operators
	Power Plant Operators
	Stationary Engineers
	Power Plant Systems Operators, Except Stationary Engineers
	Chemical Plant Operators
	Petroleum Plant Operators
	Plant or System Operators, Miscellaneous

Code	Job Title or Occupation
7200	Production Working Occupations
	Supervisors: Production Occupations
	Machine Setup Operators
	Metalworking and Plastic Working Machine Setup Operators
	Lathe and Turning Machine Setup Operators
	Milling and Planing Machine Setup Operators
	Punching and Shearing Machine Setup Operators
	Extruding and Drawing Machine Setup Operators
	Rolling Machine Setup Operators
	Press and Brake Machine Setup Operators
	Drilling and Boring Machine Setup Operators
	Forging Machine Setup Operators
	Grinding, Abrading, Buffing, and Polishing Machine Setup Operators
	Lapping and Honing Machine Setup Operators
	Numerical Control Machine Setup Operators
	Metalworking and Plasticworking Machine Setup Operators, Miscellaneous
	Metal Fabricating Machine Setup Operators
	Welding Machine Setup Operators
	Soldering and Brazing Machine Setup Operators
	Fabricating Machine Setup Operators, Miscellaneous
	Metal and Plastic Processing Machine Setup Operators
	Molding and Casting Machine Setup Operators
	Plating and Coating Machine Setup Operators
	Heating Equipment Setup Operators
	Miscellaneous Metal and Plastic Processing Machine Setup Operators
	Woodworking Machine Setup Operators
	Lathe and Turning Machine Setup Operators
	Router and Planer Machine Setup Operators
	Sawing Machine Setup Operator
	Sanding Machine Setup Operators
	Shaping and Joining Machine Setup Operators
	Miscellaneous Woodworking Machine Operators
	Printing Machine Setup Operators
	Printing Press Set Up Operators
	Photoengraving and Lithographing Machine Setup Operators
	Printing Machine Setup Operators, Miscellaneous
	Textile Machine Setup Operators
	Winding and Twisting Machine Setup Operators
	Knitting and Weaving Machine Setup Operators
	Assorted Materials:Machine Setup Operators
	Packaging and Filling Machine Setup Operators
	Extruding and Forming Machine Setup Operators
	Compressing and Compacting Machine Setup Operators
	Roasting and Baking Machine Setup Operators
	Folding Machine Setup Operator
	Still, Clarifying, and Precipitating Machine Setup Operators
	Crushing and Grinding Machine Setup Operators
	Slicing and Cutting Machine Setup Operators
	Machine Setup Operators, Miscellaneous
	Machine Operators and Tenders
	Metal Working and Plastic Working Machine Operators and Tenders
	Lathe and Turning Machine and Tenders
	Milling and Planing Machine Operators and Tenders
	Punching and Shearing Machine Operators and Tenders
	Extruding and Drawing Machine Operators and Tenders

Code	Job Title or Occupation
7200	Rolling Machine Operators and Tenders
	Press and Brake Machine Operators and Tenders
	Drilling and Boring Machine Operators and Tenders
	Forging Machine Operators
	Grinding, Abrading, Buffing, and Polishing Machine Operators and Tenders
	Metalworking and Plastic Working Machine Operators and Tenders, Misc.
	Metal Fabricating Machine Operators and Tenders
	Welding Machine Operators and Tenders
	Soldering and Brazing Machine Operators and Tenders
	Fabricating Machine Operators and Tenders, Miscellaneous
	Metal and Plastic Processing Machine Operators and Tenders
	Molding and Casting Machine Operators and Tenders
	Plating and Coating Machine Operators and Tenders
	Heating Equipment Operators and Tenders
	Metal and Plastic Processing Machine Operators and Tenders, Misc.
	Woodworking Machine Operators and Tenders
	Lathe and Turning Machine Operators and Tenders
	Router and Planer Machine Operators and Tenders
	Sawing Machine Operators and Tenders
	Sanding Machine Operators and Tenders
	Shaping and Joining Machine Operators and Tenders
	Nailing and Tacking Machine Operators and Tenders
	Woodworking Machine Operators and Tenders, Miscellaneous
	Printing Machine Operators and Tenders
	Typesetting and Composing Machine Operators and Tenders
	Printing Machine Operators and Tenders
	Photoengraving and Lithographing Machine Operators and Tenders
	Printing Machine Operators and Tenders, N.E.C.
	Textile, Apparel, and Furnishings Machine Operators and Tenders
	Winding and Twisting Machine Operators and Tenders
	Knitting and Weaving Machine Operators and Tenders
	Textile Fabricating Machine Operators and Tenders
	Textile Cutting Machine Operators and Tenders
	Textile Sewing Machine Operators and Tenders
	Shoe Machine Operators and Tenders
	Pressing Machine Operators
	Laundering and Dry Cleaning Machine Operators and Tenders
	Machine Operators and Tenders: Assorted Materials
	Cementing and Gluing Machine Operators and Tenders
	Packaging and Filling Machine Operators and Tenders
	Extruding and Forming Machine Operators and Tenders
	Mixing and Blending Machine Operators and Tenders
	Cooling and Freezing Equipment Operators and Tenders
	Separating and Filtering Machine Operators and Tenders
	Compressing and Compacting Machine Operators and Tenders
	Boiler Operators and Tenders (Low Pressure)
	Coating, Painting, and Spraying Machine Operators and Tenders
	Photographic Developing Machine Operator
	Roasting and Baking Machine Operators and Tenders
	Washing, Cleaning, and Pickling Equipment Operators and Tenders
	Folding Machine Operators and Tenders
	Furnace, Kiln, and Oven Operators and Tenders
	Still, Clarifier, and Precipitator Operators and Tenders
	Crushing and Grinding Machine Operators and Tenders
	Slicing and Cutting Machine Operators and Tenders

Code	Job Title or Occupation
7700	Fabricators, Assemblers, and Hand Working Occupations
	Welders and Solderers
	Welders and Cutters
	Solderers and Brazers
	Assemblers
	Hand Sewing Occupations
	Hand Cutting and Trimming Occupations
	Hand Holding and Casting Occupations
	Hand Forming and Shaping Occupations
	Hand Painting, Coating, and Decorating Occupations
	Hand Engraving and Printing Occupations
	Hand Grinding and Polishing Occupations
	Hand Working Occupations, Miscellaneous
	Production Inspectors, Testers, Samplers, and Weighers
	Production Inspectors, Checkers, and Examiners
	Production Testers
	Production Samplers and Weighers
	Graders and Sorters, Except Agricultural
	Production Expeditors

9900 Miscellaneous Occupations

Detailed Instructional Area Code - Classification of Instructional Program Section

Detailed Instructional Area Code Listing

This is a listing of detailed listing of Classification of Program codes, titles and descriptions from which the VEERS Instructional Area Codes are derived. It is to be used as a reference for the determination of properly reporting the IAC of a vocational concentrator student.

IAC	Title or CIP Code	Description
01.0100	Agricultural Business and Management	
	Business Administration and Management. (refer to 52.02 Series)	
	1.0101	Agricultural Business and Management, General. An instructional program that generally prepares individuals to apply modern economic and business principles involved in the organization, operation and management of farm and agricultural businesses.
	1.0102	Agricultural Business/Agribusiness Operations. An instructional program that prepares individuals to apply modern business and economic principles relating to the production and marketing of agricultural products and services.
	1.0103	Agricultural Economics. An instructional program that describes modern business and economic principles relating to the allocation of resources in the production and marketing of agricultural products and services in the domestic and international markets.
	1.0104	Farm and Ranch Management. An instructional program that prepares individuals to manage a farm or ranch. Includes instruction in computer assisted management analysis, accounting, taxes, production, financing, capital resources, purchasing, government programs, farm inputs, performance records, contracts, estate planning and marketing.
	1.0199	Agricultural Business and Management, Other. Any instructional program in agricultural business and management not described above.
01.0200	Agricultural Mechanization	
	1.0201	Agricultural Mechanization, General. An instructional program that prepares individuals in a general way to sell, select and service agriculture or agribusiness technical equipment and facilities, including computers, specialized software, power units, machinery, equipment, structures and utilities. Includes instruction in agricultural power units; the planning and selection of materials for the construction of agricultural facilities; the mechanical practices associated with irrigation and water conservation; erosion control; and data processing systems.
	1.0204	Agricultural Power Machinery Operator. An instructional program that prepares individuals to install, operate, service, maintain, and repair various agricultural power units, vehicles, machinery and equipment. Includes instruction in gas, diesel, and electric power units; welding; refrigeration; and hydraulic systems.
	1.0299	Agricultural Mechanization, Other. Any instructional program in agricultural mechanization not described above.
01.0300	Agricultural Production/Workers and Managers.	
	1.0301	Agricultural Production Workers and Managers, General. An instructional program that generally prepares individuals to plan and economically use facilities, natural resources, labor and capital in the production of plant and animal products.
	1.0302	Agricultural Animal Husbandry and Production Management. An instructional program that prepares individuals to select, breed, care for and market livestock and small farm animals. Includes instruction in the operation of animal production enterprises.
	1.0303	Aquaculture Operations and Production Management. An instructional program that prepares individuals to select, culture, propagate, harvest and market domesticated fish, shellfish and marine plants. Includes instruction in the operation of fish farms and related enterprises.
	1.0304	Crop Production Operations and Management. An instructional program that prepares individuals to operate enterprises producing cereal grain, fiber, forage, oilseed, tree fruits and nuts, small fruits, vegetables and other plant products. Includes instruction in soils, plant nutrition, plant diseases, pest management, harvesting and marketing.
	1.0399	Agricultural Production Workers and Managers, Other. Any instructional program in agricultural production not described above.
IAC	Title or CIP Code	Description

- 01.0400 Agricultural and Food Products Processing**
- 1.0401** Agricultural and Food Products Processing Operations and Management. An instructional program that prepares individuals to receive, inspect, store and process agricultural food or products preparatory to marketing. Includes instruction in the characteristics and properties of agricultural products, and processing and storage techniques.
- 01.0500 Agricultural Supplies and Related Services**
- 1.0501** Agricultural Supplies Retailing and Wholesaling. An instructional program that generally prepares individuals to sell supplies for agricultural production, provide agricultural services and purchase and market agricultural products.
- 1.0505** Animal Trainer. An instructional program that prepares individuals to teach animals to obey commands; perform services; perform in sports and leisure activities; provide security; assist in law enforcement; assist in search and rescue operations or perform entertainment tricks.
- 1.0507** Equestrian/Equine Studies, Horse Management and Training. An instructional program that prepares individuals to care for horses and horse equipment; to train horses for various work and athletic or entertainment roles; to ride horses; and to manage horse training, breeding and housing programs and facilities.
- 1.0599** Agricultural Supplies and Related Services, Other. Any instructional program in agricultural supplies and support services not described above.
- 01.0600 Horticulture Services Operations and Management**
- 1.0601** Horticulture Services Operations and Management, General. An instructional program that generally prepares individuals to produce, process and market plants, shrubs and trees used principally for ornamental, recreational and aesthetic purposes and to establish, maintain, and manage horticultural enterprises.
- 1.0603** Ornamental Horticulture Operations and Management. An instructional program that prepares individuals to produce flowers, foliage, and related plant materials in fields and greenhouses for ornamental purposes, and to arrange, package and market these materials. Includes instruction in enterprise management.
- 1.0604** Greenhouse Operations and Management. An instructional program that prepares individuals to produce commercial plant species in controlled environments, and to manage commercial and experimental greenhouse operations.
- 1.0605** Landscaping Operations and Management. An instructional program that prepares individuals to procure, plant and maintain grounds and indoor and outdoor ornamental plants. Includes instruction in equipment maintenance and facilities management.
- 1.0606** Nursery Operations and Management. An instructional program that prepares individuals to produce turf, shrubs, and trees for the purpose of transplanting or propagation. Includes instruction in enterprise management.
- 1.0607** Turf Management. An instructional program that prepares individuals to establish, manage and maintain ornamental or recreational grassed areas, to prepare and maintain athletic playing surfaces, and to produce turf for transplantation.
- 1.0699** Horticulture/Services Operations and Management, Other. Any instructional program in horticulture management and production not described above.
- 01.0700 International Agriculture**
- 1.0701** International Agriculture. An instructional program that describes the application of agricultural principles to problems of global food production and distribution, and to the study of the agricultural systems of other nations.
- 01.9900 Agricultural Business and Production, Other**
- 1.9999** Agricultural Business and Production, Other. Any instructional program in agricultural business and production not described above.

IAC	Title or CIP Code	Description
02.0100	Agriculture/Agricultural Sciences	
	2.0101	Agriculture/Agricultural Sciences, General. An instructional program that generally describes the principles and practices of agricultural research and production, and may prepare individuals to apply such knowledge and skills to the solution of practical agricultural problems. Includes instruction in basic animal, plant, and soil science; animal husbandry and plant cultivation; and soil conservation.
	2.0102	Agricultural Extension. An instructional program that prepares individuals to provide referral, consulting, assistance and educational services to farmers and ranchers via local, state or Federal government agencies. Includes instruction in agricultural sciences, agricultural business operations, agricultural law and administrative regulations, public relations, and communications skills.
02.0200	Animal Sciences	
	Zoology. (refer to 26.07 Series)	
	2.0201	Animal Sciences, General. An instructional program that generally describes the scientific principles that underlies the breeding and husbandry of agricultural animals, and the production, processing, and distribution of agricultural animal products.
	2.0202	Agricultural Animal Breeding and Genetics. An instructional program that describes the application of genetics to the improvement of agricultural animal health, the development of new animal breeds, and the selective improvement of animal populations.
	2.0203	Agricultural Animal Health. An instructional program that describes the scientific principles that affects the prevention and control of diseases in agricultural animals.
	2.0204	Agricultural Animal Nutrition. An instructional program that describes the biology and chemistry of proteins, fats, carbohydrates, water, vitamins, and feed additives and their relation to animal health and the production of improved animal products.
	2.0205	Agricultural Animal Physiology. An instructional program that describes the application of physiological principles to the study of agricultural animals and production problems. Instruction is provided in lactation, reproduction, digestion and growth.
	2.0206	Dairy Science. An instructional program that describes the biological theories, principles and applications that apply to the production and management of dairy animals and the production of milk products.
	2.0209	Poultry Science. An instructional program that describes the scientific theories, principles, and applications pertaining to the management of poultry populations and the production of poultry products.
	2.0299	Animal Sciences, Other. Any instructional program in animal sciences not described above.
02.0300	Food Sciences and Technology	
	2.0301	Food Sciences and Technology. An instructional program that describes the biological, chemical, physical and engineering principles and practices involved in converting agriculture products to forms suitable for direct human consumption or for storage, and the solution of problems relating to product transportation, storage and marketing.
02.0400	Plant Sciences	
	Botany. (refer to 26.03 Series)	
	2.0401	Plant Sciences, General. An instructional program that generally describes the scientific theories and principles involved in the production and management of plants for food, feed, fiber, and soil conservation.
	2.0402	Agronomy and Crop Science. An instructional program that describes the chemical, physical and biological relationships of crops and the soils nurturing them. Includes instruction in the growth and behavior of agricultural crops, the breeding of improved and new crop varieties, and the scientific management of soils for maximum plant nutrition and health.

IAC	Title or CIP Code	Description
	2.0403	Horticulture Science. An instructional program that describes the scientific principles involved in the cultivation of garden and ornamental plants, including fruits, vegetables, flowers, landscape and nursery crops. Includes instruction in specific types of plants, plant breeding, plant physiology, and the management of garden/nursery crops throughout the plant life cycle.
	2.0405	Plant Breeding and Genetics. An instructional program that describes the scientific theories and principles underlying plant breeding, development and mutation, including hybridization and differential selection for plant improvement. Includes instruction in botanical biometry, statistics and computer analysis.
	2.0406	Agricultural Plant Pathology. An instructional program that describes the scientific principles associated with recognizing diseased plants, identifying causal agents, the development of disease response mechanisms and treatments, and the prevention or reduction of economic loss.
	2.0407	Agricultural Plant Physiology. An instructional program that describes the scientific principles involved in the life processes of plants and plant responses to the elements of the physical environment, including nutrition, respiration, growth, photosynthesis, and reproduction.
	2.0408	Plant Protection (Pest Management). An instructional program that describes the principles and practices of controlling and preventing economic loss caused by plant pests, and related environmental protection measures. Includes instruction in entomology, plant pathology, weed science, crop science and environmental toxicology.
	2.0409	Range Science and Management. An instructional program that describes the scientific principles and practices involved in studying and managing rangelands, arid regions, grasslands and other areas of low productivity. Includes instruction in livestock grazing systems management, soil science, plant and wildlife ecology, and hydrology.
	2.0499	Plant Sciences, Other. Any instructional program in plant sciences not described above.
02.0500	Soil Sciences	
	2.0501	Soil Sciences. An instructional program that describes the scientific classification and study of soils and soil properties. Includes instruction in soil chemistry, soil physics, soil biology, soil fertility, morphogenesis, mineralogy and hydrology, and soil conservation and management.
02.9900	Agriculture/Agricultural Sciences, Other	
	2.9999	Agriculture/Agricultural Sciences, Other. Any instructional programs in agriculture/agricultural sciences not described above.
03.0100	Natural Resources Conservation	
	3.0101	Natural Resources Conservation, General. An instructional program that generally describes activities involving the conservation and/or improvement of natural resources such as air, soil, water, land, fish, and wildlife for economic and recreation purposes.
	3.0102	Environmental Science/Studies. An instructional program that describes the study of the biological and physical aspects of the environment and environment related issues, including methods of abating or controlling environmental pollution and collateral damage.
03.0200	Natural Resources Management and Protective Services. A group of instructional programs preparing individuals to engage in activities concerned with monitoring and maintaining the quality of the natural environment.	
	3.0201	Natural Resources Management and Policy. An instructional program that prepares individuals to plan, develop and conduct programs to protect and maintain natural habitats and renewable natural resources. Includes instruction in wildlife biology, animal population surveys, economics, conservation techniques, public education, and administration.
	3.0203	Natural Resources Law Enforcement and Protective Services. An instructional program that prepares individuals to enforce natural resource and environmental protection regulations and laws; and to perform emergency duties to protect human life, property and natural resources, including fire prevention and control measures, and emergency and rescue procedures.
	3.0299	Natural Resources Management and Protective Services, Other. Any instructional program in natural resources management and protective services not described above.

IAC	Title or CIP Code	Description
03.0300	Fishing and Fisheries Sciences and Management	
	3.0301	Fishing and Fisheries Sciences and Management. An instructional program that describes the scientific study of the husbandry of fish populations for recreational, ecological, and commercial purposes; and the application of such studies to the management of marine life resources and fisheries. Includes instruction in principles of aquatic and marine biology, water resources, fishing production and management operations, fishing regulations, water quality monitoring, and the management of recreational and commercial fishing activities.
03.0400	Forest Production and Processing. A group of instructional programs that prepare individuals to assist foresters, scientists and wood processing facility managers in the maintenance of forest lands and resources, and the harvesting and processing of forest products. Agricultural Production. (refer to 01.03 Series)	
	3.0401	Forest Harvesting and Production Technology/Technician. An instructional program that prepares individuals to assist foresters in managing, protecting and harvesting timber stands and specialty forest crops. Includes instruction in equipment maintenance and repair, tree planting, selection and identification of trees for special attention, transplantation and harvesting, and forest management and safety procedures.
	3.0404	Forest Products Technology/Technician. An instructional program that prepares individuals to assist a manager, engineer, chemist, or forest product scientist in the measurement, analysis of quality, testing, and processing of harvested forest raw materials, and the selection, grading and marketing of forest products to be used for specific purposes. Includes instruction in identifying, measuring, assessing quality, evaluating commercial value, and strength testing.
	3.0405	Logging/Timber Harvesting. An instructional program that prepares individuals to operate logging equipment and machinery for the direct harvesting of timber crops, including equipment maintenance and the practice of safety procedures.
	3.0499	Forest Production and Processing, Other. Any instructional program in forestry production and processing not described above.
03.0500	Forestry and Related Sciences. A group of instructional programs that prepare individuals to apply scientific, engineering, and management principles to the management and use of natural resources that occur on, and in association with, forest lands. Agricultural Sciences. (refer to 02. Series)	
	3.0501	Forestry, General. An instructional program that generally prepares individuals to manage and develop forest areas for economic, recreational and ecological purposes. Includes instruction in forest related sciences, mapping, statistics, harvesting and production technology, resource protection, management and economics, ecology and biology, administration, and public relations.
	3.0502	Forestry Sciences. An instructional program that describes the application of scientific principles to the study of environmental factors affecting forests and to the growth and management of forest resources. Includes instruction in forest biology, forest hydrology, forest engineering, silviculture, disease and pest control, and the development of improved tree varieties.
	3.0506	Forest Management. An instructional program that prepares individuals in the management and administration of forests and forest lands. Includes instruction in silviculture, forest protection, forest policy, and forest resources planning and economics.
	3.0509	Wood Science and Pulp/Paper Technology. An instructional program that prepares individuals to apply scientific and engineering principles to analyze the properties and behavior of wood and wood products; to analyze the chemical and physical processes involved in converting wood into paper and other products; and the design and development of related machinery and systems.
	3.0599	Forestry and Related Sciences, Other. Any instruction program in forestry and related sciences not described above.

IAC	Title or CIP Code	Description
03.0600	Wildlife and Wildlands Management.	
	3.0601	Wildlife and Wildlands Management. An instructional program that prepares individuals in the principles and practices used in the conservation and management of wildlands and wildlife resources for aesthetic, ecological, and recreational uses.
03.9900	Conservation and Renewable Natural Resources, Other	
	3.9999	Conservation and Renewable Natural Resources, Other. Any instructional program in conservation and renewable natural resources not described above.
08.0100	Apparel and Accessories Marketing Operations	
	8.0101	Apparel and Accessories Marketing Operations, General. An instructional program that generally prepares individuals to perform marketing tasks specifically applicable to all segments of the apparel and fashion industry.
	8.0102	Fashion Merchandising. An instructional program that prepares individuals to perform wholesaling tasks specifically applicable to promoting product lines to the retail segment of the apparel and fashion industry.
	8.0103	Fashion Modeling. An instructional program that prepares individuals to model (i.e., display) clothing or clothing related articles for designers, buyers, salespeople, and potential customers.
	8.0199	Apparel and Accessories Marketing Operations, Other. Any instructional program in apparel and accessories marketing operations not described above.
08.0200	Business and Personal Services Marketing Operations. A group of instructional programs that prepare individuals to apply marketing concepts in the delivery of services to business or for personal consumption.	
	8.0204	Business Services Marketing Operations. An instructional program that prepares individuals to perform marketing tasks specifically applicable to business community services.
	8.0205	Personal Services Marketing Operations. An instructional program that prepares individuals to perform marketing tasks specifically applicable to personal services.
	8.0299	Business and Personal Services Marketing Operations, Other. Any instructional program in business or personal services marketing operations not described above.
08.0300	Entrepreneurship	
	Enterprise Management and Operation. (refer to 52.07 Series.)	
	8.0301	Entrepreneurship. An instructional program that prepares individuals to perform marketing tasks specifically applicable to developing business enterprises.
08.0400	Financial Services Marketing Operations	
	8.0401	Financial Services Marketing Operations. An instructional program that prepares individuals to perform marketing tasks specifically applicable to banks, credit unions, and other financial institutions.
08.0500	Floristry Marketing Operations	
	Horticulture Management and Production. (refer to 01.06 Series)	
	8.0503	Floristry Marketing Operations. An instructional program that prepares individual to perform marketing tasks specifically applicable to the floristry industry.
08.0600	Food Products Retailing and Wholesaling Operations	
	8.0601	Food Products Retailing and Wholesaling Operations. An instructional program that prepares individuals to perform marketing tasks specifically applicable to food supplies and grocery wholesaling and retailing.
08.0700	General Retailing and Wholesaling Operations and Skills	
	8.0701	Auctioneering. An instructional program that prepares individuals to sell articles at an auction to the highest bidder.
	8.0704	General Buying Operations. An instructional program that prepares individuals to perform marketing tasks specifically applicable to obtaining goods and services for a business.

IAC	Title or CIP Code	Description
	8.0705	General Retailing Operations. An instructional program that prepares individuals to perform marketing tasks specifically applicable to retail operations in a wide variety of settings.
	8.0706	General Selling Skills and Sales Operations. An instructional program that prepares individuals to perform the techniques of direct consumer persuasion, involving planned, personalized communications, as agents for a wide variety of industries and product types.
	8.0708	General Marketing Operations. An instructional program that prepares individuals to perform various marketing tasks applicable to a wide variety of industries and commercial settings.
	8.0709	General Distribution Operations. An instructional program that prepares individuals to perform marketing tasks specifically applicable to storing and shipping commodities, either for businesses or retail consumers.
	8.0799	General Retailing and Wholesaling Operations and Skills, Other. Any instructional program in miscellaneous marketing operations skills not described above.
08.0800	Home and Office Products Marketing Operations. An instructional program that prepares individuals to perform marketing tasks at all levels relating to the sales of either home or office products.	
	Home Furnishings and Equipment Installers and Consultants. (refer to 20.05 Series)	
	8.0809	Home Products Marketing Operations. An instructional program that prepares individuals to perform marketing tasks specifically applicable to hardware, building materials and equipment, and household supplies.
	8.0810	Office Products Marketing Operations. An instructional program that prepares individuals to perform marketing tasks specifically applicable to business equipment and supplies.
	8.0899	Home and Office Products Marketing Operations, Other. Any instructional program in home and offices products marketing operations not described above.
08.0900	Hospitality and Recreation Marketing Operations	
	Culinary Arts and Related Services. (refer to 12.05 Series)	
	Institutional Food Workers and Administrators. (refer to 20.04 Series)	
	8.0901	Hospitality and Recreation Marketing Operations, General. An instructional program that generally prepares individuals to perform marketing tasks applicable to a wide variety of hospitality and leisure industry settings.
	8.0902	Hotel/Motel Services Marketing Operations. an instructional program that prepare individuals to perform marketing tasks specifically applicable to hotels and motels.
	8.0903	Recreation Products/Services Marketing Operations. An instructional program that prepares individuals to perform marketing tasks specifically applicable to the retail sports and recreation equipment and supplies industry.
	8.0906	Food Sales Operations. An instructional program that prepares individuals to perform marketing tasks specifically applicable to the ready to eat food and beverage industry.
	8.0999	Hospitality and Recreation Marketing Operations, Other. Any instructional program in hospitality and recreation marketing operations not described above.
08.1000	Insurance Marketing Operations	
	8.1001	Insurance Marketing Operations. An instructional program that prepares individuals to perform marketing tasks specifically applicable to the insurance industry.
08.1100	Tourism and Travel Services Marketing Operations. A group of instructional programs that prepare individuals to perform marketing operations tasks in various travel and tourism settings.	
	8.1104	Tourism Promotion Operations. An instructional program that prepares individuals to perform marketing tasks specifically applicable to the tourism promotion industry.
	8.1105	Travel Services Marketing Operations. An instructional program that prepares individuals to perform marketing tasks specifically applicable to the travel industry.
	8.1199	Tourism and Travel Services Marketing Operations, Other. Any instructional in tourism and travel services marketing operations not described above.

IAC	Title or CIP Code	Description
08.1200	Vehicle and Petroleum Products Marketing Operations. A group of instructional program that prepares individuals to perform marketing tasks applicable to the vehicular sales and retail petroleum industries.	
	8.1203	Vehicle Parts and Accessories Marketing Operations. An instructional program that prepares individuals to perform marketing tasks specifically applicable to the retail vehicular parts and accessories industry.
	8.1208	Vehicle Marketing Operations. An instructional program that prepares individuals to perform marketing tasks specifically applicable to the retail vehicle sales industry.
	8.1209	Petroleum Products Retailing Operations. An instructional program that prepares individuals to perform marketing tasks specifically applicable to the retail petroleum products and service industry.
	8.1299	Vehicle and Petroleum Products Marketing Operations, Other. Any instructional program in vehicle and petroleum products marketing operations not described above.
08.1300	Health Products and Services Marketing Operations. A group of instructional programs that prepare individuals to market health products and services.	
	8.1301	Health Products and Services Marketing Operations. An instructional program that prepares individuals to perform marketing tasks specifically applicable to the health care supplies and services industry.
08.9900	Marketing Operations/Marketing and Distribution, Other	
	8.9999	Marketing Operations/Marketing and Distribution, Other. Any instructional program in marketing operations/marketing and distribution not described above.
10.0100	Communications Technologies. A group of instructional programs that prepare individuals to support and assist communications professionals and skilled communications workers.	
	10.0101	Educational/Instructional Media Technology/Technician. An instructional program that prepares individuals to assist instructional media designers and other communications professionals in preparing educational and training films, tapes, recordings, videos, slides and overheads, and in operating related technical equipment.
	10.0103	Photographic Technology/Technician. An instructional program that prepares individuals to support photographers and other professionals in preparing still, motion picture and video products; developing film and related technical processes; and operating specialized equipment.
	10.0104	Radio and Television Broadcasting Technology/Technician. An instructional program that prepares individuals to support broadcast managers and other professionals in performing tasks related to the production of radio and television programs, films, and recordings. Includes instruction in operating specialized equipment.
	10.0199	Communications Technologies/Technicians, Other. Any instructional program in communications technologies not described above.
11.0200	Computer Programming	
	11.0201	Computer Programming. An instructional program that prepares individuals to apply methods and procedures used in designing and writing computer programs to developing solutions to specific operational problems and use requirements, including testing and troubleshooting prototype software packages.
11.0300	Data Processing Technology	
	11.0301	Data Processing Technology/Technician. An instructional program that prepares individuals to use and operate computers and associated software packages to perform a variety of tasks, including text processing, number processing, graphics, and data base management.

IAC	Title or CIP Code	Description
	11.0401	Information Sciences and Systems. An instructional program that describes the scientific study and development of electronic systems for transmitting information via signaling networks, and the study of information transmission from the point of generation to reception and human interpretation. Includes instruction in information systems planning and design, user needs analysis, and provider capacity and requirements analysis.
	11.0501	Computer Systems Analysis. An instructional program that prepares individuals to apply computer programming principles to the design and implementation of large-scale computer applications and networking systems. Includes instruction in system design, user prioritization, system and component optimization, and computer security systems.
12.0400	Cosmetic Services	
	12.0401	Cosmetic Services, General. An instructional program that generally prepares individuals to render a variety of beauty and grooming services to the general public.
	12.0402	Barber/Hairstylist. An instructional program that prepares individuals to cut and care for hair and perform facial shaves, with emphasis on hygiene, sanitation, customer relations and barbershop management.
	12.0403	Cosmetologist. An instructional program that prepares individuals to care for and beautify hair, care for complexions and perform manicures, and sell cosmetics in commercial or other beauty establishments, or independently. Includes instruction in hygiene, sanitation, customer relations, and salon management. May also include training and supervising assistants.
	12.0404	Electrolysis Technician. An instructional program that prepares individuals to operate specialized equipment for removing scalp hair, whiskers, body hair, warts, moles, and birthmarks from individuals. Includes instruction in equipment use and maintenance, applications to specific treatments, and customer relations.
	12.0405	Massage. An instructional program that prepares individuals to administer systematic friction, stroking, tapping, slapping and manipulative movements to the human body for therapeutic or relaxation purposes either independently or under clinical supervision. Includes instruction in any of the various massage disciplines, basic health and first aid principles, customer/patient relations, and applications to specific therapeutic conditions and problems.
	12.0406	Makeup Artist. An instructional program that prepares individuals to apply cosmetics, cosmetic devices, masks and other materials to the human face and body, to enhance or alter appearance. Includes instruction in specific treatments such as facials, manicures, waxings, pedicures, and others; related techniques and equipment; applications to specific purposes such as acting, television broadcasting, and private cosmetic services; and customer/client relations.
	12.0499	Cosmetic Services, Other. Any instructional programs in cosmetic services not described above.
12.0500	Culinary Arts and Related Services. A group of instructional programs that prepare individuals to provide professional food and beverage services in restaurants, bars and other commercial establishments.	
	Institutional Food Workers and Administrators. (refer to 20.04 Series)	
	12.0501	Baker/Pastry Chef. An instructional program that prepares individuals to serve as professional bakers and pastry specialists in restaurants or other commercial baking establishments. Includes instruction in bread and pastry making, bread and pastry handling and storage, cake and pastry decorating, baking industry operations, product packaging and marketing operations, and counter display and service.

IAC	Title or CIP Code	Description
	12.0502	Bartender/Mixologist. An instructional program that prepares individuals to mix and serve alcoholic and nonalcoholic drinks to patrons of bars or other commercial establishments. Includes instruction in standard recipes, cleanliness and safety standards, legal requirements of alcoholic beverage service, and customer relations.
	12.0503	Culinary Arts/Chef Training. An instructional program that prepares individuals to provide professional chef and related cooking services in restaurants and other commercial food establishments. Includes instruction in recipe and menu planning, preparing and cooking of foods, supervising and training kitchen assistants, the management of food supplies and kitchen resources, aesthetics of food presentation, and familiarity or mastery of a wide variety of cuisines and culinary techniques.
	12.0504	Food and Beverage/Restaurant Operations Manager. An instructional program that prepares individuals to manage and supervise food and beverage service operations, including catering services, banquet management, and executive chef positions. Includes instruction in food and beverage cost control, food and beverage purchasing and storage, restaurant and food services operation, personnel supervision and management, menu planning and event coordination, and the principles of general hospitality industry management and operations.
	12.0505	Kitchen Personnel/Cook and Assistant Training. An instructional program that prepares individuals to serve under the supervision of chefs and other food service professionals as kitchen support staff and commercial food preparation workers. Includes instruction in kitchen organization and operations, sanitation and quality control, basic food preparation and cooking skills, kitchen and kitchen equipment maintenance, and quantity food measurement and monitoring.
	12.0506	Meatcutter. An instructional program that prepares individuals to apply technical knowledge and skills to cut, trim, and prepare carcasses and portions of meat for sale in wholesale, retail, or foodservice establishments. Includes instruction in the use of meatcutting tools; identification of and cutting techniques for different cuts of meat; dressing poultry; processing fish; counter display; and refrigeration and sanitation.
	12.0507	Waiter/Waitress and Dining Room Manager. An instructional program that prepares individuals to serve food to customers in formal or informal settings. Includes instruction in formal rules of serving etiquette, table and counter service, dining room operations and procedures, service personnel supervision and management, food and beverage preparation and presentation, communication skills, business math and procedures, and sanitation.
	12.0599	Culinary Arts and Related Service, Other. Any instructional program in culinary arts and related services not described above.
	12.9999	Personal and Miscellaneous Services, Other. Any instructional program in personal and miscellaneous services not described above.
13.1500	Teacher Assistant/Aide	
	13.1501	Teacher Assistant/Aide. An instructional program that prepares individuals to assist a teacher in regular classroom settings or in providing instruction and supervision to special student populations, such as bilingual/bicultural students, special education students, adult learners, and students learning English. Includes instruction in techniques of general classroom supervision, maintaining order, assisting with lessons and carrying out related assignments.
15.0100	Architectural Engineering Technology Engineering. (refer to 14. Series)	
	15.0101	Architectural Engineering Technology/Technician. An instructional program that prepares individuals to apply basic engineering principles and technical skills in support of architects, engineers and planners engaged in designing and developing buildings, urban complexes, and related systems. Includes instruction in design testing procedures, building site analysis, model building and computer graphics, engineering drawing, structural systems testing, analysis of prototype mechanical and interior systems, test equipment operation and maintenance, and report preparation.

IAC	Title or CIP Code	Description
15.0200	Civil Engineering/Civil Technology	
	15.0201	Civil Engineering/Civil Technology/Technician. An instructional program that prepares individuals to apply basic engineering principles and technical skills in support of civil engineers engaged in designing and executing public works projects such as highways, dams, bridges, tunnels and other facilities. Includes instruction in site analysis, structural testing procedures, field and laboratory testing procedures, plan and specification preparation, test equipment operation and maintenance, and report preparation.
15.0300	Electrical and Electronic Engineering Related Technology. A group of instructional programs that prepare individuals to apply basic engineering principles and technical skills in support of engineering, research and industrial applications of electricity, lasers, and computers.	
	15.0301	Computer Engineering Technology/Technician. An instructional program that prepares individuals to apply basic engineering principles and technical skills in support of computer engineers engaged in designing and developing computer systems and installations. Includes instruction in computer electronics and programming, prototype development and testing, systems installation and testing, solid state and micro-miniature circuitry, peripheral equipment, and report preparation.
	15.0303	Electrical, Electronic and Communications Engineering Technology/Technician. An instructional program that prepares individuals to apply basic engineering principles and technical skills in support of electrical, electronics and communication engineers. Includes instruction in electrical circuitry, prototype development and testing; systems analysis and testing, systems maintenance, instrument calibration, and report preparation.
	15.0304	Laser and Optical Technology/Technician. An instructional program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing and using lasers and other optical for commercial or research purposes. Includes instruction in laser and optical principles, testing and maintenance procedures, safety precautions, specific applications to various tasks, and report preparation.
	15.0399	Electrical and Electronic Engineering Related Technologies/Technicians, Other. Any instructional program in electrical and electronic engineering related technologies not described above.
15.0400	Electromechanical Instrumentation and Maintenance Technology. A group of instructional programs that prepare individuals to apply basic engineering and technical skills in support of engineers and other professionals engaged in developing and using industrial systems relying on electrical power.	
	15.0401	Biomedical Engineering Related Technology/Technician. An instructional program that prepares individuals to apply basic engineering principles and technical skills in support of engineers engaged in developing biological or medical systems and products. Includes instruction in instrument calibration, design and installation testing, system safety and maintenance procedures, procurement and installation procedures, and report preparation.
	15.0402	Computer Maintenance Technology/Technician. An instructional program that prepares individuals to apply basic engineering principles and technical skills in support of professionals who use computer systems. Includes instruction in basic computer design and architecture, programming, problems of specific computer applications, component and system maintenance and inspection procedures, hardware and software problem diagnosis and repair, and report preparation.
	15.0403	Electromechanical Technology/Technician. An instructional program that prepares individuals to apply basic engineering principles and technical skills in support of engineers engaged in developing and testing automated, servo-mechanical, and other electromechanical systems. Includes instruction in prototype testing, manufacturing and operational testing, systems analysis and maintenance procedures, and report preparation.

IAC	Title or CIP Code	Description
	15.0405	Robotics Technology/Technician. An instructional program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing and using robots. Includes instruction in the principles of robotics, design and operational testing, system maintenance and repair procedures, robot computer systems and control language, specific system types and applications to specific industrial tasks, and report preparation.
	15.0499	Electromechanical and Instrumentation and Maintenance Technologies/Technicians, Other. Any instructional program in electromechanical instrumentation and maintenance technologies not described above.
15.0500	Environmental Control Technologies. A group of instructional programs that prepare individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in environmental protection and the development of environmental systems.	
	15.0501	Heating, Air Conditioning and Refrigeration Technologies/Technicians. An instructional program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing and using air conditioning, refrigeration, and heating systems. Includes instruction in principles of heating and cooling technology, design and operational testing, inspection and maintenance procedures, installation and operation procedures, and report preparation.
	15.0503	Energy Management and Systems Technology/Technician. An instructional program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing energy efficient systems or monitoring energy use. Includes instruction in principles of energy conservation, instrumentation calibration, monitoring systems and test procedures, energy loss inspection procedures, energy conservation techniques, and report preparation.
	15.0505.	Solar Technology/Technician. An instructional program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing solar powered energy systems. Includes instruction in solar energy principles, energy storage and transfer technologies, testing and inspection procedures, system maintenance procedures, and report preparation.
	15.0506	Water Quality and Wastewater Treatment Technology/Technician. An instructional program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing and using water storage, water power, and wastewater treatment systems. Includes instruction in water storage, power and/or treatment systems and equipment; appropriate testing and inspection procedures; appropriate system maintenance procedures; and report preparation.
	15.0507	Environmental and Pollution Control Technology/Technician. An instructional program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing and using indoor and outdoor environmental pollution control systems, and in disposing of hazardous materials. Includes instruction in environmental safety principles, biohazard identification, testing and sampling procedures, laboratory techniques, instrumentation calibration, hazardous waste disposal procedures and systems, safety and protection procedures, equipment maintenance, and report preparation.
	15.0599	Environmental Control Technologies/Technicians, Other. Any instructional program in environmental control technologies not described above.

IAC	Title or CIP Code	Description
15.0600	Industrial Production Technologies. A group of instructional programs that prepare individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing and using industrial processes.	
	15.0603	Industrial/Manufacturing Technology/Technician. An instructional program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing and using industrial manufacturing systems and processes. Includes instruction in design and prototype testing, instrument calibration, operational and maintenance procedures, operational diagnosis and repair, applications to specific systems and products, and report preparation.
	15.0607	Plastics Technology/Technician. An instructional program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing and using industrial polymers. Includes instruction in the principles of macromolecular chemistry, polymerization and plastic manufacturing processes and equipment, design and operational testing procedures, equipment maintenance and repair procedures, safety procedures, applications to specific products, and report preparation.
	15.0611	Metallurgical Technology/Technician. An instructional program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and metallurgists engaged in developing and using industrial metals and manufacturing processes. Includes instruction in principles of metallurgy, related manufacturing systems, laboratory techniques, testing and inspection procedures, instrument calibration, system and equipment maintenance and repair, applications to specific processes, and report preparation.
	15.0699	Industrial Production Technologies/Technicians, Other. Any instructional program in industrial production technologies not described above.
15.0700	Quality Control and Safety Technologies. A group of instructional programs that prepare individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in monitoring product quality and the health and safety of the work place.	
	15.0701	Occupational Safety and Health Technology/Technician. An instructional program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in maintaining job related health and safety standards. Includes instruction in safety engineering principles, inspection and monitoring procedures, testing and sampling procedures, laboratory techniques, applications to specific work environments, and report preparation.
	15.0702	Quality Control Technology/Technician. An instructional program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in maintaining consistent manufacturing and construction standards. Includes instruction in quality control systems management principles, technical standards applicable to specific engineering and manufacturing projects, testing procedures, inspection procedures, related instrumentation and equipment operation and maintenance, and report preparation.
	15.0799	Quality Control and Safety Technologies/Technicians, Other. Any instructional program in quality control and safety technologies not described above.
15.0800	Mechanical Engineering Related Technologies. A group of instructional programs that prepare individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing mechanical systems.	
	15.0801	Aeronautical and Aerospace Engineering Technology/Technician. An instructional program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing, manufacturing and testing aircraft, spacecraft and their systems. Includes instruction in aircraft/spacecraft systems technology, design and development testing, prototype and operational testing, inspection and maintenance procedures, instrument calibration, test equipment operation and maintenance, and report preparation.

IAC	Title or CIP Code	Description
	15.0805	Mechanical Engineering/Mechanical Technology/Technician. An instructional program that prepares individuals to apply basic engineering principles and technical skills in support of engineers engaged in the design and development phases of a wide variety of projects involving mechanical systems. Includes instruction in principles of mechanics, applications to specific engineering systems, design testing procedures, prototype and operational testing and inspection procedures, manufacturing system testing procedures, test equipment operation and maintenance, and report preparation.
	15.0899	Mechanical Engineering Related Technologies/Technicians, Other. Any instructional program in mechanical engineering related technologies not described above.
15.0900	Mining and Petroleum Technologies. A group of instructional programs that prepare individuals to apply basic principles of engineering and technical skills in support of engineers and other professionals engaged in locating and extracting mineral and petroleum resources.	
	15.0901	Mining Technology/Technician. An instructional program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in the development and operation of mines and related mineral processing facilities. Includes instruction in principles of mineral extraction and related geology, mineral field mapping and site analysis, testing and sampling methods, instrument calibration, assay analysis, test equipment operation and maintenance, mine environment and safety monitoring procedures, mine inspection procedures, and report preparation.
	15.0903	Petroleum Technology/Technician. An instructional program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in the development and operation of oil and natural gas extraction and processing facilities. Includes instruction in principles of petroleum extraction and related geology, petroleum field mapping and site analysis, testing and sampling methods, instrument calibration, laboratory analysis, test equipment operation and maintenance, environment and safety monitoring procedures for oil/gas fields and facilities, facility inspection procedures, and report preparation.
	15.0999	Mining and Petroleum Technologies/Technicians, Other. Any instructional program in mining and petroleum engineering related technologies not described above.
15.1000	Construction/Building Technology.	
	15.1001	Construction/Building Technology/Technician. An instructional program that prepares individuals to apply basic engineering principles and technical skills in support of engineers, engineering contractors and other professionals engaged in the construction of buildings and related structures. Includes instruction in basic structural engineering principles and construction techniques, building site inspection, site supervision, construction personnel supervision, plan and specification interpretation, supply logistics and procurement, applicable building codes, and report preparation.
	15.1101	Engineering Technology/Technician, General. An instructional program that generally prepares individuals to apply basic engineering principles and technical skills in support of engineers engaged in a wide variety of projects. Includes instruction in various engineering support functions for research, production, and operations, and applications to specific engineering specialties.
	15.1102	Surveying. An instructional program that prepares individuals to apply mathematical and scientific principles to the delineation, determination, planning and positioning of land tracts, land and water boundaries, land contours and features; and the preparation of related maps, charts and reports. Includes instruction in applied geodesy, computer graphics, photo interpretation, plane and geodetic surveying, mensuration, traversing, survey equipment operation and maintenance, instrument calibration, and basic cartography.

IAC	Title or CIP Code	Description
15.9900	Engineering Related Technologies, Other	
	15.9999	Engineering Related Technologies/Technicians, Other. Any instructional program in engineering related technologies not described above.
20.0200	Child Care and Guidance Workers and Managers	
	20.0201	Child Care and Guidance Workers and Managers, General. An instructional program that generally prepares individuals for occupations in child care and guidance in institutional and residential family settings, often under the supervision of professional personnel. Includes instruction in child growth and development; nutrition; recreation, play and learning activities planning and supervision; child abuse and neglect prevention; parent child relationships; and applicable legal and administrative requirements.
	20.0202	Child Care Provider/Assistant. An instructional program that prepares individuals to be primary providers of home, family, residential or institutionally based child care services. Includes instruction in planning, organizing and conducting meaningful play and learning activities; child monitoring and supervision; recordkeeping; and referral procedures.
	20.0203	Child Care Services Manager. An instructional program that prepares individuals to develop and manage effective child care programs and facilities. Includes instruction in the management of financial operations; selecting and developing facilities; selecting staff and staffing patterns; providing for staff development opportunities; developing a total program for children; and working with parents, community organizations and others concerned with children.
	20.0299	Child Care and Guidance Workers and Managers, Other. Any instructional program in child care and guidance management and services not described above.
20.0300	Clothing, Apparel and Textile Workers and Managers	
	20.0301	Clothing, Apparel and Textile Workers and Managers, General. An instructional program that generally prepares individuals for occupations concerned with the entire spectrum of clothing, apparel, and textiles management, production, and services, including but not limited to construction; fabric and fabric care; pattern design; principles in clothing construction and selection; fitting and alterations of ready to wear garments; custom tailoring; clothing maintenance; and textiles testing.
	20.0303	Commercial Garment and Apparel Worker. An instructional program that prepares individuals to construct ready to wear garments and apparel. Includes instruction in developing and preparing patterns for standardized sizes; selecting appropriate fabric; cutting of fabric with commercial cutting equipment; stitching fabric on commercial power sewing equipment; applying finishes and notions to garments and apparel; and pressing and packing garments or apparel.
	20.0305	Custom Tailor. An instructional program that prepares individuals to design, construct, alter, and repair men's, women's and children's garments and apparel. Includes instruction in tailoring design, fabric selection, customizing to customer specifications; taking measurements and fitting; preparing patterns; cutting, sewing, altering, refitting and adjusting; operation of hand and power equipment; and pressing and smoothing seams.
	20.0306	Fashion and Fabric Consultant. An instructional program that prepares individuals to assist in apparel and fashion selection, style coordination, customer sales and consulting, fabric selection, clothing specifications, and contract buying activities. Includes instruction in supplying regular clothing needs or acting as a consultant for special events such as weddings.
	20.0309	Dry cleaner and Launderer. An instructional program that prepares individuals to perform clothing and apparel cleaning services and to operate and manage laundry and drycleaning facilities. Includes instruction in routine clothing repairs, fabric identification, spot removing and special cleaning, dyeing and bleaching, ironing and pressing, equipment operation and maintenance, and business management.
	20.0399	Clothing, Apparel and Textile Workers and Managers, Other. Any instructional program in clothing, apparel, and textiles management, production, and services not described above.

IAC	Title or CIP Code	Description
20.0400	Institutional Food Workers and Administrators. A group of instructional programs (see 20.0401) Culinary Arts and Related Services. (refer to 12.05 Series)	
	20.0401	Institutional Food Workers and Administrators. An instructional program that generally prepares individuals in managerial, production, and service skills used in governmental, commercial, or independently owned institutional food establishments and related food industry occupations. Includes instruction in planning, selecting, storing, purchasing, preparing, and serving food and food products; basic nutrition, sanitation, and food safety; the use and care of commercial equipment; serving techniques; and the operation of institutional food establishments.
	20.0404	Dietician Assistant. An instructional program that prepares individuals to assist registered dietitians in planning, preparing and serving meals to individuals with specific dietary needs. Includes instruction in equipment use, food preparation, diet regulations, food handling, safety and sanitary standards and administrative techniques and procedures.
	20.0405	Food Catering. An instructional program that prepares individuals to book, plan and manage the preparation food and services for special occasions. Includes instruction in arranging for equipment, decorations, entertainment, and transportation of food and equipment to the site of the event.
	20.0409	Institutional Food Services Administrator. An instructional program that prepares individuals to manage and supervise institutional food service operations, including school food services and other government regulated food service operations. Includes instruction in management, purchasing and storage, food preparation, staff supervision, diet and menu planning, and sanitation and safety.
	20.0499	Institutional Food Workers and Administrators. Any instructional program in institutional food preparation, administration and related services not described above.
20.0500	Home Furnishings and Equipment Installers and Consultants	
	20.0501	Home Furnishings and Equipment Installers and Consultants. An instructional program that generally prepares individuals to assist in the entire spectrum of home furnishings and decorations. Includes instruction in selecting, purchasing, designing, and decorating; home furnishings and equipment; floral design; accessory construction; textiles; and upholstery.
	20.0502	Window Treatment Maker and Installer. An instructional program that prepares individuals to design, construct and/or install custom window treatments in residential and commercial facilities. Includes instruction in selecting textiles, fabrics and finishes; selecting appropriate types of window treatments; and constructing and installing of these treatments.
	20.0599	Home Furnishings and Equipment Installers and Consultants. Any instructional program in home furnishings and equipment management, production and services not described above.
20.0600	Custodial, Housekeeping and Home Services Workers and Managers	
	20.0601	Custodial, Housekeeping and Home Services Workers and Managers, General. An instructional program that generally prepares individuals for occupations relating to commercial housekeeping and cleaning operations; and for providing housekeeping services to paying clients and to homebound individuals.
	20.0602	Elder Care Provider/Companion. An instructional program that prepares individuals to assist elderly individuals in managing their personal and social needs, and their business affairs; to assist the elderly in the maintenance of independent living arrangements; and to promote the wellbeing of the elderly.
	20.0604	Custodian/Caretaker. An instructional program that prepares individuals to clean and care for buildings, including their fixtures, furnishings, floor surfaces, and wall coverings. Includes instruction in equipment operation and maintenance, chemical and non chemical cleaning operations, sanitation, safety, staff supervision and the management of custodial businesses and services.

IAC	Title or CIP Code	Description
	20.0606	Homemaker's Aide. An instructional program that prepares individuals to assist homemakers in the management and operation of the home, including child and convalescent care, cleaning and maintenance, supplies purchasing and food preparation.
	20.0699	Custodial, Housekeeping and Home Services Workers and Manager, Other. Any instructional program in institutional, home management and supporting programs not described above.
20.9900	Vocational Home Economics, Other	
	20.9999	Vocational Home Economics, Other. Any instructional program in vocational home economics not described above.
22.0100	Law and Legal Studies. A group of instructional programs that describe the theory, history and application of the rules of conduct by which societal relations are formally structured and adjudicated.	
	22.0103	Paralegal/Legal Assistant. An instructional program that prepares individuals to perform research, drafting, investigatory, recordkeeping and related administrative functions under the supervision of an attorney. Includes instruction in legal research, drafting legal documents, appraising, pleading, courthouse procedures and legal specializations.
	22.0199	Law and Legal Studies, Other. Any instructional program in law and legal studies not described above.
25.0300	Library Assistant.	
	25.0301	Library Assistant. An instructional program that prepares individuals to assist professional librarians. Includes instruction in principles, systems, processes, and procedures of library operation; library resources and services; processes of acquisition, cataloging, storage, and display systems; discovery and retrieval of requested materials; management of books, periodicals, and other documents.
41.0100	Biological Technologies	
	41.0101	Biological Technology/Technician. An instructional program that prepares individuals to apply scientific principles and technical skills in support of biologists in research and industrial settings. Includes instruction in field research and laboratory methods.
	Health and Medical Laboratory Technologies. (refer to 51.10 Series)	
41.0200	Nuclear and Industrial Radiology Technologies. A group of instructional programs that prepare individuals to apply scientific principles and technical skills in support of design, testing and operational procedures related to the industrial use of radioisotopes and nuclear energy.	
	41.0204	Industrial Radiology Technology/Technician. An instructional program that prepares individuals to apply scientific principles and technical skills to the operation of industrial and research testing equipment using radioisotopes. Includes instruction in X-Ray analysis of materials, nondestructive testing and inspection of materials, and continuous measurement of paper or metal thickness.
	41.0205	Nuclear/Nuclear Power Technology/Technician. An instructional program that prepares individuals to apply scientific principles and technical skills in support of research scientists and operating engineers engaged in the running of nuclear reactors, and in nuclear materials processing and disposal. Includes instruction in basic nuclear physics and nuclear engineering, monitoring and safety procedures, radioactive materials handling and disposal, equipment maintenance and operation, and recordkeeping.
	41.0299	Nuclear and Industrial Radiology Technologies/Technicians, Other. Any instructional program in nuclear and industrial radiology technologies not described above.

IAC	Title or CIP Code	Description
41.0300	Physical Science Technologies. A group of instructional programs that prepare individuals to apply scientific principles and technical skills in support of physical science research and development projects.	
	41.0301	Chemical Technology/Technician. An instructional program that prepares individuals to apply scientific principles and technical skills in support of chemical research and industrial operations. Includes instruction in laboratory research methods, industrial processing methods and equipment, and instrumentation and test equipment operation and maintenance.
	41.0399	Physical Science Technologies/Technicians, Other. Any instructional program in physical science technologies not described above.
43.0100	Criminal Justice and Corrections. A group of instructional programs that describe the principles and procedures for conducting and supervising law enforcement, corrections, and security services.	
	Criminology. (refer to 45.04 Series)	
	43.0102	Corrections/Correctional Administration. An instructional program that prepares individuals to apply the theories, principles, and techniques of correctional science to the development, administration and implementation of procedures for the incarceration, supervision, and rehabilitation of legal offenders.
	43.0103	Criminal Justice/Law Enforcement Administration. An instructional program that prepares individuals to apply the theories and practices of criminal justice to structuring, managing, directing, and controlling criminal justice agencies, including police departments, sheriff's departments, law enforcement divisions and units, and private protective services.
	43.0104	Criminal Justice Studies. An instructional program that describes the study of the criminal justice system, its organizational components and processes, and its legal and public policy contexts. Includes instruction in criminal law and policy, police and correctional systems organization, the administration of justice and the judiciary, and public attitudes regarding criminal justice issues.
	43.0106	Forensic Technology/Technician. An instructional program that prepares individuals to conduct crime scene and laboratory analyses and evaluations of evidentiary materials, including human remains, under the supervision of a pathologist, forensic administrator or other law enforcement personnel. Includes instruction in principles of pathology, laboratory technology and procedures, dusting and fingerprinting, reconstructive analysis and related skills.
	43.0107	Law Enforcement/Police Science. An instructional program that prepares individuals to perform the duties of police and public security officers, including patrol and investigative activities, traffic control, crowd control and public relations, witness interviewing, evidence collection and management, basic crime prevention methods, weapon and equipment operation and maintenance, report preparation, and other routine law enforcement responsibilities.
	43.0109	Security and Loss Prevention Services. An instructional program that prepares individuals to perform routine inspection, patrol and crime prevention services for private clients. Includes instruction in the provision of personal protection as well as property security.
	43.0199	Corrections and Criminal Justice, Other. Any instructional program in corrections and criminal justice not described above.
43.0200	Fire Protection. A group of instructional programs that prepare individuals to perform firefighting and related services.	
	43.0201	Fire Protection and Safety Technology/Technician. An instructional program that prepares individuals to apply a knowledge of fire prevention and control skills to problems of reducing fire risk, loss limitation, supervising substance removal, conducting fire investigations, and advising on matters of safety procedures and fire prevention policy.
	43.0202	Fire Services Administration. An instructional program that prepares individuals to structure, manage, direct, and control fire departments, fire prevention services, fire inspection and investigation offices, and ancillary rescue services.

IAC	Title or CIP Code	Description
	43.0203	Fire Science/Firefighting. An instructional program that prepares individuals to perform the duties of fire fighters. Includes instruction in firefighting equipment operation and maintenance, principles of fire science and combustible substances, methods of controlling different types of fires, hazardous material handling and control, fire rescue procedures, public relations, and applicable laws and regulations.
	43.0299	Fire Protection, Other. Any instructional program in fire protection not described above.
46.0100	Masons and Tile Setters	
	46.0101	Mason and Tile Setter. An instructional program that prepares individuals to apply technical knowledge and skills in the laying and/or setting of brick, concrete block, hard tile, marble and related materials, using trowels, levels, hammers, chisels, and other hand tools.
46.0200	Carpenters.	
	46.0201	Carpenter. An instructional program that prepares individuals to apply technical knowledge and skills to lay out, fabricate, erect, install, and repair wooden structures and fixtures, using hand and power tools. Includes instruction in areas such as common systems of framing, construction materials, estimating, blueprint reading and finish carpentry techniques.
46.0300	Electrical and Power Transmission Installers	
	46.0301	Electrical and Power Transmission Installer, General. An instructional program that prepares individuals to apply technical knowledge and skills to install, operate, maintain, and repair residential, commercial, and industrial electrical systems, and the power lines that transmit electricity from its source of generation to its place of consumption.
	46.0302	Electrician. An instructional program that prepares individuals to apply technical knowledge and skills to install, operate, maintain, and repair electric apparatus and systems such as residential, commercial, and industrial electric power wiring; and DC and AC motors, controls, and electrical distribution panels. Includes instruction in the use of test equipment.
	46.0303	Lineworker. An instructional program that prepares individuals to apply technical knowledge and skills to install, operate, maintain and repair local, long distance, and rural electric power cables and communication lines; erect and construct pole and tower lines; and install underground lines and cables.
	46.0399	Electrical and Power Transmission Installers, Other. Any instructional program in electrical and power transmission installation not described above.
46.0400	Construction and Building Finishers and Managers. A group of instructional programs that prepare individuals to apply technical knowledge and skills to the finishing, inspection, and maintenance of structures and related properties.	
	46.0401	Building/Property Maintenance and Manager. An instructional program that prepares individuals to apply technical knowledge and skills in order to keep a building functioning, and to service a variety of types of structures including commercial and industrial buildings and mobile homes. Includes instruction in the basic maintenance and repair skills required to service building air conditioning, heating, plumbing, electrical, major appliances and other mechanical systems.
	46.0403	Construction/Building Inspector. An instructional program that prepares individuals to apply technical knowledge and skills to inspect and oversee construction of buildings, dams, highways, and other structures, in order to ensure that procedures and materials comply with plans, specifications, codes and regulations.
	46.0408	Painter and Wall Coverer. An instructional program that prepares individuals to apply technical knowledge and skills to finish exterior and interior surfaces by applying protective or decorative coating materials, such as paint, lacquer, and wallpaper. Includes instruction in surface preparation; selecting, preparing, and applying paints and other coatings; hanging wallpaper; and equipment operation and maintenance.
	46.0499	Construction and Building Finishers and Managers, Other. Any instructional program in construction and building finishing and management not described above.

IAC	Title or CIP Code	Description
46.0500	Plumbers and Pipefitters	
	46.0501	Plumber and Pipefitter. An instructional program that prepares individuals to apply technical knowledge and skills to lay out, assemble, install, and maintain piping fixtures and piping systems for steam, hot water, heating, cooling, drainage, lubricating, sprinkling, and industrial processing systems. Includes instruction in material selection and use of tools to cut, bend, join, and weld pipes.
46.9900	Construction Trades, Other	
	46.9999	Construction Trades, Other. Any instructional program in construction trades not described above.
47.0100	Electrical and Electronics Equipment Installers and Repairers	
	47.0101	Electrical and Electronics Equipment Installer and Repairer, General. An instructional program that generally prepares individuals to apply technical knowledge and skills to operate, maintain, and repair electrical and electronic equipment. Includes instruction in electrical circuitry, simple gearing, linkages and lubrication of machines and appliances, and the use of testing equipment.
	47.0102	Business Machine Repairer. An instructional program that prepares individuals to apply technical knowledge and skills to maintain and repair a wide variety of office machines such as electric typewriters, word processing and dictation machines, calculators, data processing equipment, duplicating machines, and mailing machines. Includes instruction in diagnostic techniques, the use of testing equipment, and the principles of mechanics, electricity, and electronics as they relate to the repair of business machines.
	47.0103	Communications Systems Installer and Repairer. An instructional program that prepares individuals to apply technical knowledge and skills to assemble, install, operate, maintain, and repair one and two way communications equipment and systems, including television cable systems and mobile or stationary communication devices. Includes instruction in diagnostic techniques, the use of testing equipment and the principles of mechanics, electricity, and electronics as they relate to the repair of communications systems.
	47.0104	Computer Installer and Repairer. An instructional program that prepares individuals to apply technical knowledge and skills to assemble, install, operate, maintain, and repair computers and related instruments. Includes instruction in power supplies, number systems, memory structure, buffers and registers, microprocessor design, peripheral equipment, programming, and networking.
	47.0105	Industrial Electronics Installers and Repairer. An instructional program that prepares individuals to apply technical knowledge and skills to assemble, install, operate, maintain, and repair electrical/electronic equipment used in industry and manufacturing. Includes instruction in installing, maintaining and testing various types of equipment.
	47.0106	Major Appliance Installer and Repairer. An instructional program that prepares individuals to apply technical knowledge and skills to repair, install, and service major gas, electric, and microwave consumer appliances such as stoves, refrigerators, dryers, water heaters, washers, dishwashers, and commercial units such as ice makers and coffee makers.
	47.0199	Electrical and Electronics Equipment Installers and Repairers, Other. Any instructional program in electrical and electronics equipment installation and repair not described above.
47.0200	Heating, Air Conditioning, and Refrigeration Mechanics and Repairers	
	47.0201	Heating, Air Conditioning, and Refrigeration Mechanic and Repairer. An instructional program that prepares individuals to apply technical knowledge and skills to repair, install, service and maintain the operating condition of heating, air conditioning, and refrigeration systems. Includes instruction in diagnostic techniques, the use of testing equipment, and the principles of mechanics, electricity, and electronics as they relate to the repair of heating, air conditioning and refrigeration systems.

IAC	Title or CIP Code	Description
47.0300	Industrial Equipment Maintenance and Repairers	
	47.0302	Heavy Equipment Maintenance and Repairer. An instructional program that prepares individuals to apply technical knowledge and skills in the field maintenance and repair of heavy equipment, and in the general maintenance and overhaul of such equipment. Includes instruction in inspection, maintenance, and repair of tracks, wheels, brakes, operating controls, pneumatic and hydraulic systems, electrical circuitry, engines, and in techniques of welding and brazing.
	47.0303	Industrial Machinery Maintenance and Repairer. An instructional program that prepares individuals to apply technical knowledge and skills to repair and maintain industrial machinery and equipment such as cranes, pumps, engines and motors, pneumatic tools, conveyor systems, production machinery, marine deck machinery, and steam propulsion, refinery, and pipeline distribution systems.
	47.0399	Industrial Equipment Maintenance and Repairers, Other. Any instructional program in industrial equipment maintenance and repair not described above.
47.0400	Miscellaneous Mechanics and Repairers. A group of instructional programs that prepare individuals to apply technical knowledge and skills to repair and maintain a wide variety of items other than those described elsewhere in the Mechanics and Repairers Series.	
	47.0401	Instrument Calibration and Repairer. An instructional program that prepares individuals to apply technical knowledge and skills to repair and maintain testing equipment, calibration equipment, instrumentation, meters, measuring devices, and control devices.
	47.0402	Gunsmith. An instructional program that prepares individuals to apply technical knowledge and skills to make, repair, maintain, and modify firearms according to blueprints or customer specifications, using specialized hand tools and machines.
	47.0403	Locksmith and Safe Repairer. An instructional program that prepares individuals to apply technical knowledge and skills to make, repair, maintain, modify, and open locks; to make keys; to enter and change lock and safe combinations; and install and repair safes.
	47.0404	Musical Instrument Repairer. An instructional program that prepares individuals to apply technical knowledge and skills to make, repair, maintain, and tune acoustic and electric musical instruments. Includes instruction in methods and equipment for making musical instruments, electronic instrument amplification systems, techniques of cleaning, and methods of tuning musical instruments.
	47.0408	Watch, Clock and Jewelry Repairer. An instructional program that prepares individuals to apply technical knowledge and skills to make, repair, and maintain timepieces, time measuring devices, and jewelry items. Includes instruction in mechanical timekeeping systems, digital timekeeping systems, time setting, casting, engraving, polishing, stone setting, soldering, fine microscopic work, equipment and tool maintenance, redesign and restyling techniques, and customer relations.
	47.0499	Miscellaneous Mechanics and Repairers, Other. Any instructional program in miscellaneous mechanics and repairers not described above.
47.0500	Stationary Energy Sources Installers and Operators. A group of instructional programs that prepare individuals to install, operate, and maintain large power sources for such purposes as generating electricity, pumping, and heating.	
	47.0501	Stationary Energy Sources Installer and Operator. An instructional program that prepares individuals to apply technical knowledge and skills to install, repair, operate, and maintain large power sources for such purposes as generating electricity, pumping, and heating.
47.0600	Vehicle and Mobile Equipment Mechanics and Repairers. A group of instructional programs that prepare individuals to apply technical knowledge and skills to maintain and repair aircraft, land vehicles, ships, construction equipment and portable power equipment.	
	47.0603	Auto/Automotive Body Repairer. An instructional program that prepares individuals to apply technical knowledge and skills to repair, reconstruct and finish automobile bodies, fenders, and external features. Includes instruction in all phases of body work preparation and finishing.

IAC	Title or CIP Code	Description
	47.0604	Auto/Automotive Mechanic/Technician. An instructional program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles, trucks, vans and buses. Includes instruction in the diagnosis of malfunctions in and repair of engines; fuel, electrical, cooling, and brake systems; and drive train and suspension systems.
	47.0605	Diesel Engine Mechanic and Repairer. An instructional program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain diesel engines in vehicles such as automobiles, buses, ships, trucks, railroad locomotives, and construction equipment; as well as stationary diesel engines in electrical generators and related equipment.
	47.0606	Small Engine Mechanic and Repairer. An instructional program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain small internal combustion engines used on portable power equipment such as lawnmowers, chain saws, rotary tillers, and snowmobiles.
	47.0607	Aircraft Mechanic/Technician Airframe. An instructional program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain all aircraft components other than engines, propellers, avionics, and instruments. Includes instruction in layout and fabrication of sheet metal, fabric, wood, and other materials into structural members, parts, and fittings, and replacement of damaged or worn parts such as control cables and hydraulic units.
	47.0608	Aircraft Mechanic/Technician Powerplant. An instructional program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of aircraft powerplants and related systems. Instruction includes engine inspection and maintenance, lubrication and cooling, electrical and ignition systems, carburetion, fuels and fuel systems, propeller and fan assemblies.
	47.0609	Aviation Systems and Avionics Maintenance Technologist/Technician. An instructional program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of aircraft operating, control, and electronic systems. Includes instruction in flight instrumentation, aircraft communications and homing systems, radar and other sensory systems, navigation aids, and specialized systems for various types of civilian and military aircraft.
	47.0610	Bicycle Mechanic and Repairer. An instructional program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain bicycles and other human powered vehicles. Includes instruction in lubrication, adjustments of moving parts, and wheel building.
	47.0611	Motorcycle Mechanic and Repairer. An instructional program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain motorcycles and other similar powered vehicles. Includes instruction in lubrication and cooling systems, electrical and ignition systems, carburetion, fuel systems and adjustments of moving parts.
	47.0699	Vehicle and Mobile Equipment Mechanics and Repairers, Other. Any instructional program in vehicle and mobile equipment mechanics and repairers not described above.
47.9900	Mechanics and Repairers, Other	
	47.9999	Mechanics and Repairers, Other. Any instructional program in mechanics and repairs not described above.
48.0100	Drafting	
	48.0101	Drafting, General. An instructional program that generally prepares individuals to apply technical knowledge and skills to plan and prepare scale pictorial interpretations of engineering and design concepts. Includes instruction in the use of precision drawing instruments, computer assisted design programs, sketching and illustration, and specification interpretation.
	48.0102	Architectural Drafting. An instructional program that prepares individuals to apply technical knowledge and skills to plan and prepare scale pictorial interpretations of plans and design concepts for buildings or other structures. Includes instruction in creating layouts and designs, architectural blueprints and renderings, and in the use of computer assisted design programs.

IAC	Title or CIP Code	Description
	48.0103	Civil/Structural Drafting. An instructional program that prepares individuals to apply technical knowledge and skills to plan and prepare scale pictorial interpretations of plans and design concepts for construction projects, including topographical profiles, related maps and specifications sheets for use by civil engineers and other land use planning specialists. Includes instruction in performing all stages of design illustration and interpretation from initial concept to prototype, and the use of computer assisted design programs.
	48.0104	Electrical/Electronics Drafting. An instructional program that prepares individuals to apply technical knowledge and skills to plan and prepare scale pictorial interpretations of plans and design concepts for wiring diagrams and schematics used by electrical/electronics engineers, electrical contractors and repairers to plan, install and modify electrical equipment and systems. Includes instruction in performing all stages of design illustration and interpretation from initial concept to prototype, and the use of computer assisted design programs.
	48.0105	Mechanical Drafting. An instructional program that prepares individuals to apply technical knowledge and skills to plan and prepare scale pictorial interpretations of plans and design concepts for mechanical devices and machinery, including vehicles and other major systems. Includes instruction in performing all stages of design illustration and interpretation from initial concept to prototype, and the use of computer assisted design programs.
	48.0199	Drafting, Other. Any instructional program in drafting not described above.
48.0200	Graphic and Printing Equipment Operators	
	48.0201	Graphic and Printing Equipment Operator, General. An instructional program that generally prepares individuals to apply technical knowledge and skills to plan, prepare and execute commercial and industrial visual image and print products using mechanical, electronic, and digital graphic and printing equipment.
	48.0205	Mechanical Typesetter and Composer. An instructional program that prepares individuals to apply technical knowledge and skills to lay out, compose, and make up typesetting and typecast, by hand and by machine.
	48.0206	Lithographer and Platemaker. An instructional program that prepares individuals to apply technical knowledge and skills to make prints from chemically prepared stone or metal plane surfaces. Includes instruction in platemaking, stripping, lithographic photography, and related processes.
	48.0208	Printing Press Operator. An instructional program that prepares individuals to apply technical knowledge and skills to make ready, operate, and maintain printing presses.
	48.0211	Computer Typography and Composition Equipment Operator. An instructional program that prepares individuals to apply technical knowledge and skills to design and execute page formats, layouts and text composition, and to make typographical selections using computer graphics and other computer assisted design programs.
	48.0212	Desktop Publishing Equipment Operator. An instructional program that prepares individuals to apply technical knowledge and skills to plan and execute entire publication tasks using desktop publishing equipment and software, including designing, printing and binding.
	48.0299	Graphic and Printing Equipment Operators, Other. Any instructional program in graphic and printing equipment operation not described above.
48.0300	Leatherworkers and Upholsterers. A group of instructional programs that prepare individuals to apply technical knowledge and skills to fabricate and repair all types of upholstery and leather goods.	
	48.0303	Upholsterers. An instructional program that prepares individuals to apply technical knowledge and skills to install springs, filling, padding, covering and finishing on items such as furniture, automobile seats, caskets, mattresses, and bedsprings.
	48.0304	Shoe, Boot and Leather Repairer. An instructional program that prepares individuals to apply technical knowledge and skills to repair all types of footwear, including replacement and mending of worn parts; repairing orthopedic footwear, refinishing and dyeing leather; and repairing other leather goods such as handbags, belts, and luggage.

IAC	Title or CIP Code	Description
	48.0399	Leatherworkers and Upholsterers, Other. Any instructional program in leatherworking and upholstering not described above.
48.0500	Precision Metal Workers	
	48.0501	Machinist/Machine Technologist. An instructional program that prepares individuals to apply technical knowledge and skills to plan, manufacture, assemble, test, and repair parts, mechanisms, machines, and structures in which materials are cast, formed, shaped, molded, heat treated, cut, twisted, pressed, fused, stamped or worked.
	48.0503	Machine Shop Assistant. An instructional program that prepares individuals to apply technical knowledge and skills to fabricate and modify metal parts in support of other manufacturing, repair or design activities, or as an independent business.
	48.0506	Sheet Metal Worker. An instructional program that prepares individuals to apply technical knowledge and skills to form, shape, bend and fold extruded metals, including the creation of new products, using hand tools and machines such as cornice brakes, forming rolls, and squaring shears.
	48.0507	Tool and Die Maker/Technologist. An instructional program that prepares individuals to apply technical knowledge and skills to operate machine tools used in the forming of metal components, as well as the fabrication of special tools, dies, jigs and fixtures used in cutting, working and finishing metal components.
	48.0508	Welder/Welding Technologist. An instructional program that prepares individuals to apply technical knowledge and skills to unite or separate metal parts by heating, using a variety of techniques and equipment, such as brazing, arc, gas and laser operations.
	48.0599	Precision Metal Workers, Other. Any instructional program in precision metal work not described above.
48.0700	Woodworkers. A group of instructional programs that prepare individuals to apply technical knowledge and skills to lay out, shape, assemble, finish and repair articles made of wood.	
	48.0701	Woodworker, General. An instructional program that prepares individuals to apply technical knowledge and skills to lay out and shape stock; assemble wooden articles or subassemblies; mark, bind, saw, carve, and sand wooden products; repair wooden articles, and use a variety of hand and power tools.
	48.0702	Furniture Designer and Maker. An instructional program that prepares individuals to apply technical knowledge and skills to prepare and execute furniture design projects; assemble and finish furniture articles or subassemblies; repair furniture; and use a variety of hand and power tools.
	48.0703	Cabinet Maker and Millworker. An instructional program that prepares individuals to apply technical knowledge and skills to set up, operate and repair industrial woodworking machinery, and to use such machinery to design and fabricate wooden components and complete articles.
	48.0799	Woodworkers, Other. Any instructional program in woodworking not described above.
48.9900	Precision Production Trades, Other	
	48.9999	Precision Production Trades, Other. Any instructional programs in precision production not described above.
49.0100	Air Transportation Workers. A group of instructional programs that prepare individuals to apply technical knowledge and skills to provide in-flight, ground and administrative services to the aviation industry.	
	49.0101	Aviation and Airway Science. An instructional program that generally describes the study of aviation and the aviation industry, including in-flight and ground support operations. Includes instruction in the technical, business, and general aspects of air transportation systems.

IAC	Title or CIP Code	Description
	49.0102	Aircraft Pilot and Navigator (Professional). An instructional program that prepares individuals to apply technical knowledge and skills to the flying and/or navigation commercial passenger and cargo, agricultural, public service, corporate and rescue aircraft. Includes instruction in principles of aircraft design and performance; aircraft flight systems and controls; flight crew operations and procedures; radio communications and navigation procedures and systems; airway safety and traffic regulations; and governmental rules and regulations pertaining to piloting aircraft. Programs may qualify individuals to sit for the FAA commercial aircrew examinations.
	49.0104	Aviation Management. An instructional program that prepares individuals to apply technical knowledge and skills to the management of aviation industry operations and services. Includes instruction in airport operations, ground support and flightline operations, passenger and cargo operations, flight safety and security operations, aviation industry regulation, and related business aspects of managing aviation enterprises.
	49.0105	Air Traffic Controller. An instructional program that prepares individuals to apply technical knowledge and skills to air traffic management and control, usually with additional training at the FAA Flight Control Center in a cooperative education program. Includes instruction in flight control; the use of radar and electronic scanning devices; plotting of flights; radio communication; interpretation of weather conditions affecting flights; flight instrumentation used by pilots; and maintenance of flight control center or control tower log books.
	49.0106	Flight Attendant. An instructional program that prepares individuals to apply technical knowledge and skills to the performance of a variety of personal services conducive to the safety and comfort of airline passengers during flight, including verifying tickets, explaining the use of safety equipment, providing passenger services, and responding to in-flight emergencies.
	49.0107	Aircraft Pilot (Private). An instructional program that prepares individuals to fly aircraft for personal use, and qualifies individuals to sit for the FAA pilot's license examination. Includes instruction in principles of aircraft design and performance; aircraft flight systems and controls; flight crew operations and procedures; radio communications and navigation procedures and systems; airways safety and traffic regulations; and governmental rules and regulations pertaining to piloting aircraft.
	49.0199	Air Transportation Workers, Other. Any instructional program in aviation and air transportation services not described above.
49.0200	Vehicle and Equipment Operators. A group of instructional programs that prepare individuals to apply technical knowledge and skills to operate commercial and construction vehicles and mobile equipment.	
	49.0202	Construction Equipment Operator. An instructional program that prepares individuals to apply technical knowledge and skills to operate and maintain a variety of heavy equipment, such as a crawler tractors, motor graders and scrapers, and shovels, including dragline, hoe, and cranes. Includes instruction in digging, ditching, sloping, stripping, grading, backfilling, clearing and excavating.
	49.0205	Truck, Bus and Other Commercial Vehicle Operator. An instructional program that prepares individuals to apply technical knowledge and skills to drive trucks and buses, delivery vehicles, for hire vehicles and other commercial vehicles. Includes instruction in operating gas, diesel, or electrically powered vehicles; loading and unloading cargo or passengers; reporting delays or accidents on the road; verifying load against shipping papers; arranging transportation for personnel; and keeping records of receipts and fares.
	49.0299	Vehicle and Equipment Operators, Other. Any instructional program in vehicle and equipment operation not described above.

IAC	Title or CIP Code	Description
49.0300	Water Transportation Workers. A group of instructional programs that prepare individuals to apply technical knowledge and skills to perform tasks on or in the water, including diving, fishing, and ship operation and repair services.	
	49.0303	Fishing Technology/Commercial Fishing. An instructional program that prepares individuals to apply technical knowledge and skills to function as commercial fishermen, fishing operations supervisors or in related fishing industry operations. Includes instruction in fishing vessel operation; fishing equipment operation and maintenance; equipment repair; catch identification, sorting, and storage; safety procedures; recordkeeping; and applicable legal regulations.
	49.0304	Diver (Professional). An instructional program that prepares individuals to apply technical knowledge and skills to function as professional deepwater or scuba divers, diving instructors, or diving support personnel. Includes instruction in the use of diving equipment and related specialized gear; diving safety procedures; operation and maintenance of underwater life support systems; underwater communication systems; decompression systems; underwater salvage; exploration, rescue, and photography; and installation of underwater mechanical systems and their maintenance, repair or demolition.
	49.0306	Marine Maintenance and Ship Repairer. An instructional program that prepares individuals to apply technical knowledge and skills to repair outboard and inboard engines; test, maintain, and repair steering devices and electrical systems; repair metal, wood, and fiberglass hulls and vessel components; fabricate and maintain sails; and repair and balance propellers and drive shafts.
	49.0309	Marine Science/Merchant Marine Officer. An instructional program that prepares individuals to serve as captains, executive officers, engineers and ranking mates on commercially licensed inland, coastal and oceangoing vessels. Includes instruction in maritime traditions and law; maritime policy; economics and management of commercial marine operations; basic naval architecture and engineering; shipboard power systems engineering; crew supervision; and administrative procedures.
	49.0399	Water Transportation Workers, Other. Any instructional program in water transportation not described above.
49.9900	Transportation and Materials Moving Workers, Other	
	49.9999	Transportation and Materials Moving Workers, Other. Any instructional program in transportation and materials moving not described above.
50.0400	Design and Applied Arts	
	50.0401	Design and Visual Communications. An instructional program in the applied visual arts that describes the general principles and techniques for effectively communicating ideas and information, and packaging products, to business and consumer audiences, and that may prepare individuals in any of the applied art media.
	50.0402	Graphic Design, Commercial Art and Illustration. An instructional program in the applied visual arts that prepares individuals to use artistic techniques to effectively communicate ideas and information to business and consumer audiences via illustrations and other forms of printed media. Includes instruction in concept design, layout, paste-up, and techniques such as engraving, etching, silkscreen, lithography, offset, drawing and cartooning, painting, collage, and computer graphics.
	50.0404	Industrial Design. An instructional program in the applied visual arts that prepares individuals to use artistic techniques to effectively communicate ideas and information to business and consumer audiences via the creation of effective forms, shapes, and packaging for manufactured products. Includes instruction in designing in a wide variety of media, prototype construction, design development and refinement, principles of cost saving, and product structure and performance criteria relevant to aesthetic design parameters.

IAC	Title or CIP Code	Description
	50.0406	Commercial Photography. An instructional program in the applied visual arts that prepares individuals to use artistic techniques to effectively communicate ideas and information to business and consumer audiences, and recording events and people, via film, still and video photography. Includes instruction in specialized camera and equipment operation and maintenance, applications to commercial and industrial needs, and photography business operations.
	50.0407	Fashion Design and Illustration. An instructional program in the applied visual arts that prepares individuals to apply artistic principles and techniques to the professional design of commercial fashions, apparel, and accessories; the illustration of fashion concepts; and the management of fashion development projects. Includes instruction in apparel design; accessory design; the design of men's, women's, and children's wear; flat pattern design; computer assisted design; concept planning; designing in specific materials; labor and cost analysis; history of fashion; fabric art and printing; and the principles of management and operations in the fashion industry.
	50.0408	Interior Design. An instructional program in the applied visual arts that prepares individuals to apply artistic principles and techniques to the professional planning, designing, equipping, and furnishing residential and commercial interior spaces. Includes instruction in drafting and graphic techniques; principles of interior lighting, acoustics, systems integration, and color coordination; furniture and furnishings; textiles and their finishing; the history of interior design and period styles; basic structural design; building codes and inspection regulations; and applications to office, hotel, factory, restaurant and housing design.
	50.0499	Design and Applied Arts, Other. Any instructional program in design and applied arts not described above.
51.0300	Community Health Services. A group of instructional programs that prepare individuals to serve the health needs of communities and groups within communities.	
	51.0301	Community Health Liaison. An instructional program that prepares individuals to serve as liaison between public health and other social services, and the recipients of health services in communities. Includes instruction in the basics of human health and nutrition, communicable diseases, environmental health, personal hygiene, care of infants, medications, and family and community services.
51.0600	Dental Services. A group of instructional programs that prepare individuals to provide dental health care services.	
	51.0601	Dental Assistant. An instructional program that prepares individuals to assist a dentist or dental hygienist in performing the functions of a dental practice. Includes instruction in chair side assistance, patient preparation, dental office functions, selected dental office laboratory procedures, and dental radiography.
	51.0602	Dental Hygienist. An instructional program that prepares individuals to practice the cleaning of teeth and related oral health therapies, either independently or in collaboration with dentists. Includes instruction in basic preventive oral health care, oral health education, dental hygiene therapy, initial periodontal therapy, patient examination and counseling, dental radiography, local anesthesia, prosthetic casts, equipment operation and maintenance, and recordkeeping.
	51.0603	Dental Laboratory Technician. An instructional program that prepares individuals to make and repair dental prostheses and restorative appliances as prescribed by a dentist. Includes instruction in complete and partial denture construction, crown and fixed bridge fabrication cast metal partial, customized porcelain and acrylic restorations, and building orthodontic appliances.
	51.0699	Dental Services, Other Any instructional in dental services not described above.

IAC	Title or CIP Code	Description
51.0700	Health and Medical Administrative Services. A group of instructional programs that describe the management of the administrative aspects of the health care delivery system at the unit, office, building or system levels.	
	51.0701	Health Systems/Health Services Administration. An instructional program that prepares physicians and other professionals to develop, plan, and manage health care systems and service networks. Includes instruction in planning and coordination, business and financial management, fundraising and marketing, public relations, human resources management, technical operations of health care systems, resource allocation, health law, and applications to specific health service situations.
	51.0702	Hospital/Health Facilities Administration. An instructional program that prepares health and other professionals to apply the principles of management to the running of hospitals and similar health facilities. Includes instruction in building and facility management, planning and coordination, scheduling, business and financial management, fundraising and marketing, public relations, human resources management and labor relations, technical hospital operations, resource allocation, and health law.
	51.0703	Health Unit Coordinator/Ward Clerk. An instructional program that prepares individuals to perform routine clerical and reception duties in a patient care unit within a hospital or other health care facility. Includes instruction in receiving and directing visitors, transcribing medical orders, preparing requisition forms, scheduling appointments and monitoring the location of patients and personnel, under the supervision of a head nurse or ward supervisor.
	51.0704	Health Unit Manager/Ward Supervisor. An instructional program that prepares individuals to supervise and coordinate administrative management functions for one or more patient care units in a healthcare facility, under the supervision of a nursing or medical services administrator. Includes instruction in initiating clerical procedures, supervising ward clerks, and serving as a liaison to facility administration and medical staffs.
	51.0705	Medical Office Management. An instructional program that prepares individuals to manage the administrative and business aspects of a medical practice or other health care office. Includes instruction in policy administration, conference planning, scheduling and coordination, managing business records and reports, financial recordkeeping, personnel supervision, public relations, administrative aspects of health law, and office operations.
	51.0706	Medical Records Administration. An instructional program that prepares individuals to supervise and manage the preparation, storage, and use of medical records; and the management of related information systems. Includes instruction in the legal and technical aspects of medical records, the design and management of secure data systems, the role of records in medical surveys, and the supervision of medical records technicians and other related staff.
	51.0707	Medical Records Technology/Technician. An instructional program that prepares individuals to classify medical information and prepare records, under the supervision of a medical records administrator. Includes instruction in medical records science, medical terminology, record classification, user needs, indexing, special records systems, computer operation, and applicable laws and regulations.
	51.0708	Medical Transcription. An instructional program that prepares individuals to execute verbatim medical minutes, reports and orders. Includes instruction in dictation, analysis of written notes or visual evidence, computer and transcription machine operation, formal medical correspondence and report formats and requirements, and applicable laws and regulations.
	51.0799	Health and Medical Administrative Services, Other. Any instructional program in health and medical administrative services not described above.
51.0800	Health and Medical Assistants. A group of instructional programs that prepare individuals to provide general or specialized assistance to physicians or other health professionals.	

IAC	Title or CIP Code	Description
	51.0801	Medical Assistant. An instructional program that prepares individuals to support physicians by providing assistance during patient examinations, treatment administration, and monitoring; by keeping patient and related health record information; and by performing a wide range of practice related duties.
	51.0802	Medical Laboratory Assistant. An instructional program that prepares individuals to support laboratory directors and technicians by performing routine clinical laboratory procedures and clerical tasks.
	51.0803	Occupational Therapy Assistant. An instructional program that prepares individuals to support occupational therapists by providing assistance during patient examinations, treatment administration, and monitoring; by keeping patient and related health record information; and by performing a wide range of practice related duties.
	51.0804	Ophthalmic Medical Assistant. An instructional program that prepares individuals to support ophthalmologists by providing assistance during patient examinations, treatment administration, and monitoring; by keeping patient and related health record information; and by performing a wide range of practice related duties.
	51.0805	Pharmacy Technician/Assistant. An instructional program that prepares individuals to support pharmacists by providing assistance during patient consultation, counter dispensing operations, and prescription preparation; keeping patient and related health record information; and by performing a wide range of practice related duties.
	51.0806	Physical Therapy Assistant. An instructional program that prepares individuals to support physical therapists by providing assistance during patient examinations, treatment administration, and monitoring; by keeping patient and related health record information; and by performing a wide range of practice related duties.
	51.0807	Physician Assistant. An instructional program that prepares individuals to manage the treatment of patients with routine or chronic health problems, in consultation with a physician or under indirect supervision. Includes instruction in patient interviewing and history taking, counseling, laboratory testing and analysis, administration of medication, minor surgery, prescribing routine drugs, preparing medical reports and referrals to physicians and other specialists.
	51.0808	Veterinarian Assistant/Animal Health Technician. An instructional program that prepares individuals to support veterinarians by providing assistance during animal examinations, treatment administration, and monitoring; by keeping animal and related health record information; and by performing a wide range of practice related duties.
	51.0899	Health and Medical Assistants, Other. Any instructional program for health and medical assistants not described above.
51.0900	Health and Medical Diagnostic and Treatment Services. A group of instructional programs that prepare individuals to use medical equipment and materials for diagnostic, immediate care and treatment purposes.	
	51.0901	Cardiovascular Technology/Technician. An instructional program that prepares individuals to perform invasive and noninvasive tests to monitor human heart and circulatory system health, and to administer prescribed treatment therapies, under the supervision of a physician. Includes instruction in the administration of tests such as EKG, phono-cardiogram, and stress tests; therapeutic procedures such as cardiac catheterization and Holter monitoring; patient preparation; equipment preparation and maintenance; and recordkeeping.
	51.0902	Electrocardiograph Technology/Technician. An instructional program that prepares individuals to perform examinations of electromotive variations in human heart activity using an electrocardiograph machine, under the supervision of a physician. Includes instruction in patient preparation, equipment operation and maintenance, making minor repairs, and recordkeeping.

IAC	Title or CIP Code	Description
	51.0903	Electroencephalograph Technology/Technician. An instructional program that prepares individuals to perform examinations of electromotive variations in human brain activity using an electroencephalograph machine and to make related data analyses, under the supervision of a physician. Includes instruction in patient preparation, equipment operation and maintenance, EEG test procedures, data analysis, determination of brain death, tumor identification, and brain injury and disorder identification.
	51.0904	Emergency Medical Technology/Technician. An instructional program that prepares individuals to perform initial medical diagnosis, treatment, and comprehensive care in medical crises, under the general supervision of a coordinating physician. Includes instruction in all aspects of basic health care; disease, disorder, and injury symptomology and diagnosis; emergency medical treatment procedures for various injuries and disease outbreaks; basic pharmacology; anesthetics; intravenous and other drug administration procedures; obstetrics procedures; basic surgical techniques; emergency medical equipment operation and maintenance; special care of patients exposed to heat, cold, radiation, or contagious disease; and administrative aspects of emergency medicine. Programs may include emergency vehicle operation and patient transportation procedures, depending on level of training.
	51.0905	Nuclear Medical Technology/Technician. An instructional program that prepares individuals to prepare and administer radioactive isotopes via injections, and to measure glandular and other bodily activity by means of in vitro and in vivo detection and specimen testing. Includes instruction in equipment operation and maintenance, materials storage and safety, patient preparation, and recordkeeping.
	51.0906	Perfusion Technology/Technician. An instructional program that prepares individuals to operate heart-lung machines and monitor patient condition under the direct supervision of a surgeon. Includes instruction in patient examination and preparation, equipment operation and maintenance, anesthesia, and operating room procedures.
	51.0907	Medical Radiology Technology/Technician . An instructional program that prepares individuals to perform diagnostic examinations, and administer therapeutic procedures, using X-Ray and related radiations, under the supervision of a radiologist. Includes instruction in conducting CAT scans (computer tomography), xeradiography, thermography and X-Ray procedures; equipment operation and maintenance; patient preparation; and recordkeeping.
	51.0908	Respiratory Therapy Technician. An instructional program that prepares individuals to perform therapeutic and life support procedures using respiratory equipment, under the supervision of a physician. Includes instruction in administering inhalants via mist, mask, tent or other procedures; monitor heartlung machines and other intensive care therapies; anesthesia; emergency procedures; equipment operation and maintenance; storage and safety methods; and recordkeeping.
	51.0909	Surgical/Operating Room Technician. An instructional program that prepares individuals to perform general technical support tasks in the operating room before, during, and after surgery. Includes instruction in pre-operation patient and surgical team preparation, handling surgical instruments at tableside, supply inventory maintenance before and during operations, sterilization and cleaning of equipment, maintaining clean and sealed environments, operating room safety procedures, and recordkeeping.
	51.0910	Diagnostic Medical Sonography Technician. An instructional program that prepares individuals to perform diagnostic and monitoring procedures using acoustic energy, under the supervision of a physician. Includes instruction in patient preparation, ultrasound testing and examination procedures, sonogram evaluation, recordkeeping, and equipment operation and maintenance.
	51.0999	Health and Medical Diagnostic and Treatment Services, Other. Any instructional program in health and medical diagnostic and treatment services not described above.
51.1000	Health and Medical Laboratory Technologies. A group of instructional programs that prepare individuals to perform diagnostic and analytical laboratory procedures that support medical research and practice.	

IAC	Title or CIP Code	Description
	51.1001	Blood Bank Technology/Technician. An instructional program that prepares individuals to perform classification, analysis, and related tests on banked blood under the supervision of a pathologist, physician, or laboratory director. Includes instruction in laboratory hematology; laboratory and blood bank procedures; blood donor selection; blood collection, classification, storage, and processing procedures; topological and compatibility tests; blood bank inventory and delivery procedures; recordkeeping; and personnel and volunteer supervision.
	51.1002	Cytotechnologist. An instructional program that prepares individuals to perform oncological and related pathological analyses of human tissue samples, under the supervision of a pathologist. Includes instruction in pathology laboratory procedures; equipment operation and maintenance; conducting Pap and other test procedures for cancer diagnosis; analytical procedures for other cell abnormalities; slide and tissue sample preparation; and recordkeeping.
	51.1003	Hematology Technology/Technician. An instructional program that prepares individuals to perform tests and analyses of patients' blood samples under the supervision of a hospital laboratory director or physician. Includes instruction in laboratory procedures; laboratory hematology; conducting quantitative, qualitative, and coagulation tests on cellular and plasma blood components; equipment operation and maintenance, and recordkeeping.
	51.1004	Medical Laboratory Technician. An instructional program that prepares individuals to perform general medical laboratory procedures and routines, under the supervision of a physician or laboratory director. Includes instruction in medical laboratory procedures; equipment operation and maintenance; principles of different bacteriological, biological, and chemical test procedures; equipment and sample inventorying and storage; laboratory safety procedures; laboratory assistant supervision; and recordkeeping.
	51.1005	Medical Technology. An instructional program that prepares individuals as independent laboratory scientists and laboratory supervisors in the analysis of human body fluids and tissues. Includes instruction in clinical chemistry, clinical microbiology, clinical immunology, immunochemistry, clinical hematology, chemical and physical analytic techniques, equipment technology, data and record systems maintenance and experiment design. Also includes the preparation and interpretation of research and medical reports.
	51.1006	Optometric/Ophthalmic Laboratory Technician. An instructional program that prepares individuals to make prescription lenses and related visual aid equipment, under the supervision of an optician or optometrist. Includes instruction in optical laboratory procedures; principles of vision optics; lens grinding and polishing; contact lens fabrication; glasses construction; equipment operation and maintenance; safety procedures; precision instrument work and testing; prescription interpretation; and recordkeeping.
	51.1099	Health and Medical Laboratory Technologies/Technicians, Other. Any instructional program in health and medical laboratory technologies not described above.
51.1613	Practical Nurse (L.P.N. Training). An instructional program that prepares individuals to assist in providing general nursing care under the direction of a registered nurse, physician or dentist. Includes instruction in taking patient vital signs, applying sterile dressings, patient health education and assistance with examinations and treatment.	
51.1614	Nursing Assistant/Aide. An instructional program that prepares individuals to perform routine nursing related services to patients in hospitals or long term care facilities, under the training and supervision of a registered nurse or licensed practical nurse.	
51.1615	Home Health Aide. An instructional program that prepares individuals to assist elderly, convalescent or handicapped patients in their homes by providing for their physical, mental, emotional and/or social health care needs, under the supervision of a registered nurse.	
51.2300	Rehabilitation/Therapeutic Services. A group of instructional programs that prepare individuals to provide assistance in stabilizing and/or improving diagnosed health problems.	
	51.2301	Art Therapy. An instructional program that prepares individuals to employ art as a tool to assist patients in overcoming physical disability, resolving emotional conflicts and enhancing communications with others.

IAC	Title or CIP Code	Description
	51.2302	Dance Therapy. An instructional program that prepares individuals to employ dance as a tool to assist patients in overcoming physical disability, resolving emotional conflicts and enhancing communications with others.
	51.2303	Hypnotherapy. An instructional program that prepares individuals to employ hypnosis as a tool to assist patients in reducing physical pain, resolving emotional conflicts and enhancing communications with others. Includes instruction in trance inducement and its relation to other healing arts specialties.
	51.2304	Movement Therapy. An instructional program that prepares individuals to employ hands on repatterning and verbal instruction as a tool to assist patients in overcoming physical disability, resolving emotional conflicts and enhancing communications with others. Includes instruction in physiological patterning/cognitivemotor functioning, movement analysis and performance, psychological/emotional expression and health maintenance and improvement.
	51.2305	Music Therapy. An instructional program that prepares individuals to employ music as a tool to assist patients in overcoming physical disability, resolving emotional conflicts and enhancing communications with others. Includes instruction in leading and monitoring individual and group musical activities with patients who suffer from physical or mental disorders.
	51.2306	Occupational Therapy. An instructional program that prepares individuals to employ self care, work and play activities as therapeutic regimes for patients in order to increase independent functioning, enhance development and assist recovery from disability. Includes instruction in adapting therapeutic tasks or environments to achieve maximum independence and enhance the quality of life for each patient.
	51.2307	Orthotics/Prosthetics. An instructional program that prepares individuals, under the supervision of a physician and in consultation with therapists, to make and fit orthoses and prostheses. Includes instruction in design, crafting and production techniques, properties of materials, anatomy and physiology, and patient counseling.
	51.2308	Physical Therapy. An instructional program that prepares individuals, upon referral by a physician, to evaluate patients and plan and execute treatment programs to prevent or remediate physical dysfunction, relieve pain and prevent further disability. Includes instruction in patho and therapeutic kinesiology, equipment design and maintenance, treatment regimes, and the evaluation of skeletal, neurological and cardiovascular disorders. Also includes instruction in patient counseling, personnel supervision and recordkeeping.
	51.2309	Recreational Therapy. An instructional program that prepares individuals to plan, organize, and direct medically approved programs of leisure activity to promote patient physical and mental health and functioning in social interactions. Includes instruction in volunteer and staff supervision, patient evaluation and monitoring, behavioral therapy, and recreation program and pre-discharge planning.
	51.2310	Vocational Rehabilitation Counseling. An instructional program that prepares individuals, under the supervision of physicians or psychologists, to assist patients in coping with physical and/or mental disabilities that affect work. Includes instruction in vocational counseling, employment assistance and placement, patient evaluation and monitoring, administering psychological and psychomotor tests, and the planning of training programs.
	51.2399	Rehabilitation/Therapeutic Services, Other. An instructional program in rehabilitation/therapeutic services not described above.
51.2600	Miscellaneous Health Aides	
	51.2601	Health Aide Any of a group of instructional programs that prepare individuals to perform routine care and assistance duties for patients, under the direct supervision of other health care professionals, and/or to perform routine maintenance and general assistance duties in health care laboratories.

IAC	Title or CIP Code	Description
51.9900	Health Professions and Related Services, Other	
	51.9999	Health Professions and Related Sciences, Other. Any instructional program in health professions and related sciences not described above.
52.0100	Business. A group of instructional programs (see 52.0101)	
	52.0101	Business, General. An instructional program that generally describes the world of business, including the processes of interchanging goods and services (buying, selling and producing), business organization, and accounting as used in profit making and nonprofit public and private institutions and agencies. Programs may prepare individuals to apply business principles and techniques in various occupational settings.
52.0300	Accounting	
	52.0301	Accounting. An instructional program that prepares individuals to practice the profession of accounting and to perform related business functions. Includes instruction in accounting principles and theory, financial accounting, managerial
	52.0302	Accounting Technician. An instructional program that prepares individuals to provide technical administrative support to professional accountants and other financial management personnel. Includes instruction in posting transactions to accounts, recordkeeping systems, accounting software operation, and general accounting principles and practices.
	52.0399	Accounting, Other. Any instructional program in accounting not described above.
52.0400	Administrative and Secretarial Services. A group of instructional programs that prepare individuals to provide administrative and office support services.	
	52.0401	Administrative Assistant/Secretarial Science, General. An instructional program that generally prepares individuals to perform the duties of administrative assistants and/or secretaries and stenographers. Includes instruction in business communications, principles of business law, word processing and data entry, office machines operation and maintenance, office procedures, public relations, secretarial accounting, filing systems and records management, and report preparation.
	52.0402	Executive Assistant/Secretary. An instructional program that prepares individuals to perform the duties of special assistants and/or personal secretaries for business executives and top management. Includes instruction in business communications, principles of business law, public relations, scheduling and travel management, secretarial accounting, filing systems and records management, conference and meeting recording, report preparation, office equipment and procedures, office supervisory skills, and professional standards and legal requirements.
	52.0403	Legal Administrative Assistant/Secretary. An instructional program that prepares individuals to perform the duties of special assistants and/or personal secretaries for lawyers, judges, and legal counsels. Includes instruction in business and legal communications, principles of law, public relations, scheduling and travel management, secretarial accounting, filing systems and records management, conference and meeting recording, report preparation, office equipment and procedures, office supervisory skills, legal terminology and research methods, and professional standards and legal requirements.
	52.0404	Medical Administrative Assistant/Secretary. An instructional program that prepares individuals to perform the duties of special assistants and/or personal secretaries for physicians, hospital and health services administrators, and other health professionals. Includes instruction in business and medical communications, principles of health services operations, public relations, scheduling and travel management, secretarial accounting, filing systems and records management, conference and meeting recording, report preparation, office equipment and procedures, office supervisory skills, medical terminology, medical legal and business procedures, and professional standards and legal requirements.
	52.0405	Court Reporter. An instructional program that prepares individuals to record examinations, testimony, judicial opinions, judges' charges to juries, judgments or sentences of courts, or other formal legal proceedings by machine shorthand or other acceptable procedures. Includes instruction in specialized terminology, procedures and equipment, and professional standards and applicable regulations.

IAC	Title or CIP Code	Description
	52.0406	Receptionist. An instructional program that prepares individuals to perform public relations duties for a business, organization, or answering service. Includes instruction in telephone answering techniques, responding to information requests, keeping caller and/or visitor records, placing business calls, operating telephone switchboards and/or other communications equipment, relaying incoming and interoffice calls, schedule maintenance, and public relations skills.
	52.0407	Information Processing/Data Entry Technician. An instructional program that prepares individuals to support business information operations by using computer equipment to enter, process, and retrieve data for a wide variety of administrative purposes. Includes instruction in using basic business software and hardware; business computer networking; principles of desktop publishing; preparing mass mailings; compiling and editing spreadsheets; list maintenance; preparing tables and graphs; receipt control; and preparing business performance reports.
	52.0408	General Office/Clerical and Typing Services. An instructional program that prepares individuals to provide basic administrative support under the supervision of office managers, administrative assistants, secretaries, and other office personnel. Includes instruction in typing, keyboarding, filing, general business correspondence, office equipment operation, and communications skills.
	52.0499	Administrative and Secretarial Services, Other. Any instructional program in administrative and secretarial services not described above.
52.0500	Business Communications	
	52.0501	Business Communications. An instructional program that prepares individuals to function in an organization as a composer, editor and proofreader of business or business related communications.
52.1200	Business Information and Data Processing Services. A group of instructional programs that prepare individuals to provide computer services in business environments, and to manage such services.	
	52.1201	Management Information Systems and Business Data Processing, General. An instructional program that generally prepares individuals to provide and manage data systems and related facilities for processing and retrieving internal business information; select systems and train personnel; and respond to external data requests. Includes instruction in cost and accounting information systems, management control systems, personnel information systems, data storage and security, business systems networking, report preparation, computer facilities and equipment operation and maintenance, operator supervision and training, and management information systems policy and planning.
	52.1202	Business Computer Programming/Programmer. An instructional program that prepares individuals to apply software theory and programming methods to the solution of business data problems. Includes instruction in designing customized software applications, prototype testing, documentation, input specification, and report generation.
	52.1203	Business Systems Analysis and Design. An instructional program that prepares individuals to analyze business information needs and prepare specifications and requirements for appropriate data system solutions. Includes instruction in information requirements analysis, specification development and writing, prototype evaluation, and network application interfaces.
	52.1204	Business Systems Networking and Telecommunications. An instructional program that prepares individuals to evaluate and resolve business data system hardware and software communication requirements. Includes instruction electronic communications networks, telecommunications theory, network theory, hardware and software interfacing, computer network design and evaluation, distance communications systems, computer systems facilities and support design and evaluation, and applications to specific operational needs regarding voice, text, and data communications.

IAC	Title or CIP Code	Description
	52.1205	Business Computer Facilities Operator. An instructional program that prepares individuals to operate mainframe computers and related peripheral equipment in business settings. Includes instruction in mainframe operation and monitoring, peripheral equipment operation and monitoring, disk and tape mounting and storage, printer operations, and related computer facility operations.
	52.1299	Business Information and Data Processing Services, Other. Any instructional program in business information and data processing services not described above.
52.9900	Business Management and Administrative Services, Other	
	52.9999	Business Management and Administrative Services, Other. Any instructional program in business management and administrative services not described above.

FM -2002.DOC
31 October, 2001